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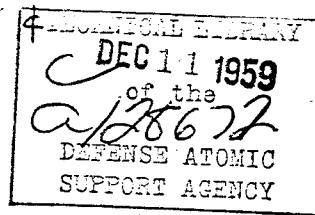
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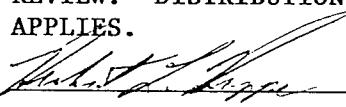
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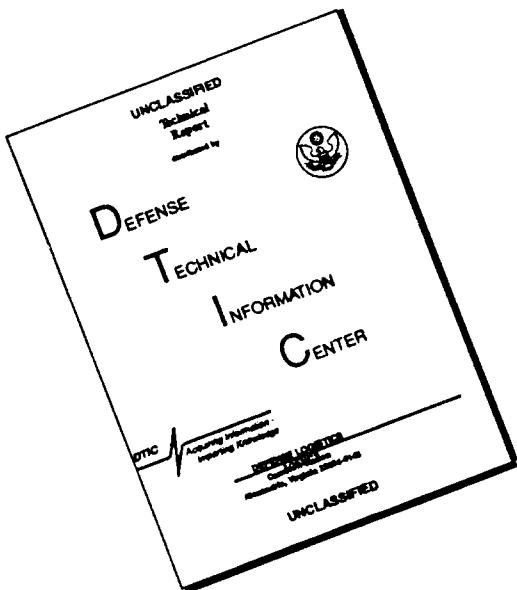
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HRR:jmb  
19 Mar 57

TABULATED GAMMA DOSE RATES AND DOSES FOR YAG's 39/40 at OPERATION REDWING

The gamma dose rates and doses have been arbitrarily tabulated using three significant figures in most cases. This is being more than optimistic, actually only two significant figures are warranted under the best of conditions. The three significant figures do permit study of relative variations for any given station, these relative values being more accurate than the absolute values.

In the cases where data is not presented for a particular station for a particular shot the reason is that either the values were too close to background or a calibration correction could not be assigned with confidence. It is estimated that on the average the data is accurate to within plus or minus 15 per cent. In general the accuracy is better for the highly contaminating events than for those events in which the background is a significant fraction of the total radiation level.

*Heinz R. Rinnerd*

Refer to ITR-1321 or WT-1321  
"Ship Shielding Studies", Operation Redwing,  
for details of station designation,  
location, geometry, etc.

[REDACTED]



**Defense Nuclear Agency**  
6801 Telegraph Road  
Alexandria, Virginia 22310-3398



ISST

15 May 1996

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER  
ATTN: OCD (Mr. Bill Bush)

SUBJECT: WT-1321-Supp

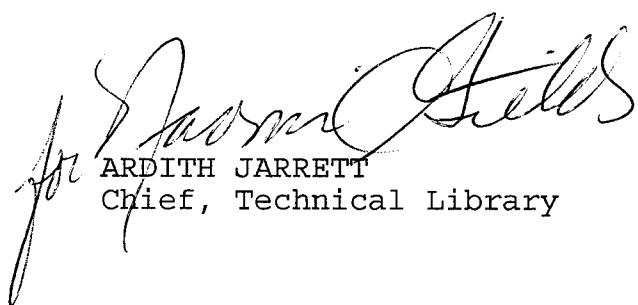
The Defense Nuclear Agency Security Office (OPSSI) has reviewed and approved for public the subject report:

WT-1321-Supp  
Tabulated Gamma Dose Rates  
and Duser for VAG's 39/40 at  
OPERATION REDIWING.  
19 March 1957

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Chief, Technical Library

TABULATED DOSE RATES

YAG 39

SECT ZONE

Dose Rate ~ YAG 39 ~ Zuni

Sta. 9		Sta. 13		Sta. 14	
H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
12.7	0.559	13.0	3.24	13.0	3.00
13.1	0.705	14.0	4.86	14.0	4.05
13.6	0.765	15.0	6.66	15.0	5.45
14.1	0.926	16.0	13.1	16.0	9.20
15.1	1.47	17.0	17.2	17.0	12.3
16.1	2.96	18.0	25.4	18.0	17.1
17.1	4.29	19.0	31.8	19.0	21.1
18.1	6.54	20.0	34.2	20.0	23.1
19.1	8.36	21.0	34.9	21.0	26.2
20.1	9.42	24.0	37.4	24.0	26.2
21.1	10.2	25.0	37.6	25.0	26.2
22.1	10.2	29.0	36.3	29.0	27.2
23.1	10.8	30.0	36.2	30.0	27.2
24.1	11.1	31.0	34.6	31.0	26.2
25.1	11.4	32.2	33.5	32.2	25.2
27.1	11.8	42.0	26.3	42.0	19.1
29.1	11.3	48.0	21.6	48.0	15.1
30.1	11.3	49.0	20.8	49.0	14.9
32.1	10.5	50.0	19.9	50.0	14.1
34.1	10.2	52.0	19.8	52.0	13.6
36.1	8.96	66.0	15.8	65.0	10.5
38.1	8.51	68.0	15.4	68.0	10.2
40.1	8.21	69.0	14.9	69.0	10.0
42.1	7.74	70.0	14.6	70.0	9.70
46.1	6.54	72.0	14.2	72.0	9.60
50.1	6.25				
54.1	5.64				
58.1	5.19				
62.1	4.89				
66.1	4.60				
70.1	4.29				
74.1	4.14				
78.1	4.00				
80.5	3.85				

Dose Rate - YAG 39 - Zuni

<u>E + hr</u>	<u>Sta. 17 mr/hr</u>	<u>Sta. 18 mr/hr</u>	<u>Sta. 19 mr/hr</u>	<u>Sta. 20 mr/hr</u>	<u>Sta. 22 mr/hr</u>	<u>Sta. 23 mr/hr</u>
20	0.497	1.33	22.1	8.41	0.069	3.27
24	0.540	1.42	24.3	8.95	0.072	3.54
30	0.497	1.33	24.3	8.80	0.069	3.27
40	0.355	0.943	18.3	6.32	0.0442	2.45
50	0.187	0.573	12.3	4.24	0.0176	1.55

## Dose Rate - YAG 39 - Zuni

Sta. 25

<u>H + hr</u>	<u>mr/hr</u>
12.7	0.281
13.1	0.445
13.4	0.511
13.7	0.545
15.0	0.834
16.0	1.58
17.0	2.06
18.0	3.15
19.0	3.65
20.0	4.16
22.0	4.32
24.0	4.65
25.0	4.49
27.0	4.65
30.0	4.32
31.1	4.16
33.0	3.65
36.0	3.43
39.0	3.24
40.0	3.15
44.6	2.24
50.0	2.14
55.0	1.90
60.0	1.73
66.0	1.62
69.0	1.52

Sta. 28

<u>H + hr</u>	<u>mr/hr</u>
16.8	0.456
17.1	0.500
18.1	0.750
19.1	0.912
20.1	0.912
21.1	1.03
22.1	1.00
23.1	1.00
25.1	1.03
27.1	1.06
28.1	1.03
29.1	1.00
31.1	0.955
33.1	0.809
35.1	0.779
37.1	0.735
39.1	0.720
41.1	0.661
42.6	0.617
43.1	0.515
47.1	0.485
50.1	0.456
53.1	0.441

Sta. 68

<u>H + hr</u>	<u>mr/hr</u>
16.7	1.21
17.4	2.37
17.7	4.51
18.0	5.72
18.4	3.96
20.2	1.98
20.9	4.18
21.2	4.56
25.0	1.55
27.1	2.95
29.9	1.31
42.0	1.57
54.0	1.49
66.0	1.25
78.0	1.13

[REDACTED]

TABLED DOSE RATES  
YAG 40

Shot Zuni

[REDACTED]

## Dose Rate - YAG 40 - Sumi

Sta. 2		Sta. 9	
H + hr	mr/hr	H + hr	mr/hr
3.95	0.805	3.37	2.28
4.08	1.26	3.57	16.8
4.32	2.91	3.73	44.2
4.57	6.15	4.07	129
5.07	10.9	4.37	470
6.07	19.0	5.07	1480
7.07	23.4	6.07	3340
8.07	14.7	7.07	1660
9.07	10.8	8.07	1360
11.1	8.48	9.07	1240
14.1	6.93	11.1	966
15.1	5.54	14.1	754
16.1	5.96	18.1	588
17.1	6.15	22.1	478
18.1	3.36	26.1	404
18.3	2.75	30.1	340
19.1	1.90	42.1	233
20.1	1.46	54.1	181
22.1	1.09	66.1	129
26.1	0.821	78.1	105
30.1	0.684		
42.1	0.426		
54.1	0.349		
66.1	0.282		
78.1	0.242		

Dose Rate - Sta. 3 - TAG 40 - Zuai

<u>hr</u>	<u>mr/hr</u>
3.78	7.14
4.07	16.9
4.32	42.4
4.57	64.1
5.07	164
5.20	193
5.50	225
5.77	247
6.02	264
6.22	279
6.43	272
6.67	258
6.90	241
7.18	193
7.57	164
8.07	142
8.57	130
9.07	119
10.1	96.8
11.1	85.9
12.1	80.4
13.1	74.8
14.1	64.1
15.1	64.1
16.1	60.8
17.1	54.3
18.1	53.3
19.1	50.0
20.1	47.9
21.1	45.7
22.1	43.6
23.1	42.4
24.1	41.4
26.1	37.1
30.1	32.9
42.1	34.8 ?
54.1	19.0
66.1	15.0
78.1	12.6

Dose Rate - Sta. 13 - YAG 40 - Zum

<u>H + hr</u>	<u>r/hr</u>	<u>H + hr</u>	<u>r/hr</u>	<u>H + hr</u>	<u>r/hr</u>
3.53	0.0165	8.32	6.20	22.1	2.28
3.63	0.0318	8.57	6.02	24.1	2.10
3.70	0.0386	8.82	5.76	26.1	1.92
3.77	0.0722	9.07	5.67	28.1	1.75
3.85	0.0847	9.32	5.49	30.1	1.66
3.97	0.128	9.57	5.31	34.1	1.49
4.05	0.165	9.82	5.13	38.1	1.31
4.17	0.249	10.1	5.13	42.1	1.17
4.32	0.480	10.6	4.68	46.1	1.11
4.57	0.957	11.1	4.41	50.1	0.940
4.77	1.31	11.6	4.14	54.1	0.844
4.95	1.92	12.1	3.97	58.1	0.740
5.08	2.37	12.6	3.97	62.1	0.679
5.25	3.25	13.1	3.70	66.1	0.635
5.40	4.06	13.6	3.61	72.1	0.583
5.57	4.58	14.1	3.34	78.1	0.539
5.73	5.67	14.6	3.43	80.1	0.495
5.90	5.76	15.1	3.25		
6.07	6.20	15.6	3.07		
6.32	6.75	16.1	3.07		
6.57	7.57	16.6	2.98		
6.82	7.57	17.1	2.90		
7.07	7.29	17.6	2.81		
7.32	7.20	18.1	2.72		
7.57	6.94	19.1	2.62		
7.82	6.66	20.1	2.45		
8.07	6.30	21.1	2.36		

## Dose Rate - Sta. 14 - YAG 40 - Zumt

H + hr	r/hr	H + hr	r/hr	H + hr	r/hr
3.53	0.0165	8.07	3.96	20.1	1.40
3.63	0.0318	8.32	3.96	21.1	1.31
3.70	0.0412	8.57	3.69	22.1	1.27
3.77	0.0722	8.82	3.43	24.1	1.17
3.80	0.0972	9.07	3.34	26.1	1.04
3.98	0.165	9.32	3.25	28.1	1.00
4.05	0.204	9.57	3.07	30.1	0.965
4.18	0.319	9.82	2.89	34.1	0.844
4.32	0.515	10.1	2.81	38.1	0.757
4.53	0.932	10.6	2.63	42.1	0.687
4.73	1.36	11.1	2.45	46.1	0.626
4.93	1.70	11.6	2.37	50.1	0.583
5.08	2.10	12.1	2.19	54.1	0.531
5.25	3.07	12.6	2.11	58.1	0.479
5.40	3.70	13.1	2.11	62.1	0.435
5.57	4.14	13.6	2.01	66.1	0.409
5.73	4.41	14.1	1.92	72.1	0.374
5.90	4.85	14.6	1.83	78.1	0.348
6.07	5.31	15.1	1.83	80.1	0.305
6.32	5.21	15.6	1.75		
6.57	6.03	16.1	1.66		
6.82	6.12	16.6	1.66		
7.07	6.12	17.1	1.57		
7.32	5.31	17.6	1.57		
7.57	5.31	18.1	1.49		
7.82	4.85	19.1	1.49		

Dose Rate - YAG 40 - Zuni

<u>H + hr</u>	Sta. 16 <u>mr/hr</u>	Sta. 17 <u>mr/hr</u>	Sta. 18 <u>mr/hr</u>	Sta. 20 <u>mr/hr</u>
6	4870	139	331	2180
10	3870	78.2	207	1540
15	2300	43.0	119	-
20	1790	29.3	83.6	-
25	1470	24.2	64.1	-
30	1270	19.2	52.3	-
40	930	13.0	37.0	354
50	748	9.93	29.1	253
60	540	7.33	23.6	187
70	452	6.11	16.6	162

<u>H + hr</u>	Sta. 21 <u>mr/hr</u>	Sta. 22 <u>mr/hr</u>	Sta. 23 <u>mr/hr</u>
6	1490	22.1	900
10	900	11.7	592
15	577	6.53	363
20	412	4.40	254
25	329	3.47	201
30	268	2.69	155
40	189	1.90	111
50	150	1.41	87.0
60	103	1.10	62.0
70	89.1	0.902	52.7

## Dose Rate - Sta. 25 - YAG 40 - Zurni

H + hr	<del>mr/hr</del>	H + hr	<del>mr/hr</del>	H + hr	<del>mr/hr</del>
3.50	2.00	7.38	768	26.0	156
3.55	3.45	7.58	704	28.1	141
3.60	4.55	7.73	678	30.0	132
3.63	5.50	7.97	639	32.0	122
3.67	6.79	8.35	575	34.1	116
3.70	7.90	8.82	561	36.1	107
3.73	10.2	9.05	536	38.1	103
3.77	12.1	9.55	497	40.1	95.8
3.82	14.4	10.1	459	42.0	90.7
4.27	65.0	10.6	432	44.2	86.9
4.42	97.0	11.1	407	46.1	81.3
4.53	125	11.5	382	48.0	76.8
4.63	149	12.1	355	50.0	75.6
4.78	190	12.6	343	52.1	70.5
4.90	222	13.1	330	54.1	65.5
5.02	253	13.6	318	56.1	61.1
5.13	318	14.1	305	58.0	56.7
5.25	419	15.1	279	60.0	55.4
5.40	472	16.1	279	62.1	53.3
5.72	574	17.0	253	64.1	51.2
6.00	638	18.1	216	66.1	48.5
6.30	640	19.1	221	68.1	46.6
6.45	768	20.1	203	70.0	46.6
6.67	794	21.1	195	72.2	44.9
6.80	834	22.1	186	74.2	44.2
7.00	768	23.1	180	77.1	41.2
		24.0	170	79.6	39.3

Dose Rate - Sta. 26 - YAG 40 - Zuni

H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
4.40	0.586	13.6	1.58	47.8	0.280
4.62	0.953	14.0	1.52	50.3	0.262
4.78	1.25	14.6	1.41	52.4	0.246
5.10	2.02	15.1	1.35	53.7	0.238
5.32	2.79	15.6	1.28	55.9	0.221
5.58	3.36	16.0	1.23	58.3	0.211
5.83	3.76	16.6	1.22	60.0	0.206
6.05	4.08	17.0	1.21	61.7	0.201
6.32	4.20	17.5	1.06	64.2	0.194
6.58	4.78	18.1	0.984	66.1	0.189
6.83	4.76	19.1	0.864	67.9	0.180
7.05	4.54	20.1	0.797	69.8	0.175
7.33	4.20	21.0	0.750	71.8	0.170
7.60	3.77	22.1	0.694	73.8	0.165
7.82	3.61	23.1	0.660	75.9	0.159
8.08	3.15	24.0	0.636	79.3	0.148
8.30	3.11	26.0	0.563		
8.58	2.99	28.1	0.520		
9.07	2.74	29.9	0.475		
9.60	2.50	32.1	0.434		
10.0	2.33	34.2	0.408		
10.6	2.19	35.9	0.384		
11.1	2.03	38.2	0.364		
11.6	1.87	40.2	0.347		
12.0	1.77	42.2	0.325		
12.5	1.69	44.3	0.304		
13.1	1.61	46.1	0.296		

Dose Rate - Sta. 28 - YAG 40 - Zuni

H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
3.57	1.40	12.1	100	40.1	27.8
3.75	4.17	12.6	95.5	42.1	26.8
4.07	9.52	13.1	90.7	44.1	25.3
4.32	24.4	13.5	88.0	46.1	24.4
4.57	45.3	14.1	83.2	48.1	22.6
4.82	67.7	14.7	79.8	50.1	21.8
5.07	94.6	15.0	78.0	52.1	20.9
5.35	134	15.6	75.2	54.1	19.4
5.57	154	16.1	72.3	56.1	18.6
5.82	175	16.6	70.2	58.1	17.3
6.05	190	17.0	68.5	60.1	16.1
6.33	200	17.5	66.0	62.1	15.6
6.57	221	18.1	63.3	64.1	15.2
6.82	226	19.1	59.4	66.1	14.4
7.08	220	20.0	56.6	68.1	13.9
7.33	205	21.2	53.1	70.1	13.3
7.53	193	22.1	50.4	72.1	13.8
7.82	184	23.0	48.4	74.1	12.6
8.07	169	24.1	46.2	76.1	12.1
8.32	166	25.0	44.2	79.1	11.6
8.57	157	25.9	42.1		
9.05	147	27.9	38.3		
9.57	136	30.0	35.9		
10.1	125	32.1	33.1		
10.6	120	34.0	31.1		
11.1	111	36.1	29.4		
11.6	103	38.2	27.5		

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Dose Rate - Sta. 39 - YAG 40 - Zuni

E + hr	mr/hr	E + hr	mr/hr	E + hr	mr/hr
3.67	11.3	12.1	212		
3.90	24.8	12.6	199	39.1	45.3
4.07	30.5	13.1	193	41.1	43.0
4.32	66.0	13.6	175	43.1	40.8
4.57	115	14.1	175	45.1	38.4
4.82	187	14.6	169	47.1	37.3
5.07	249	15.1	169	48.1	32.1
5.40	399	15.6	162	49.1	35.1
5.60	453	16.1	162	51.1	33.2
5.77	491	16.6	157	53.1	31.4
6.07	562	17.1	151	55.1	29.9
6.35	584	17.6	139	57.1	29.1
6.60	610	18.1	139	59.1	28.0
6.85	636	19.1	127	61.1	27.0
7.10	619	20.1	115	63.1	26.5
7.37	560	21.1	115	65.1	24.9
7.52	531	22.1	106	67.1	24.1
7.82	483	23.1	106	69.1	23.5
7.98	450	24.1	101	71.1	22.6
8.37	408	25.1	95.7	73.0	21.8
8.55	388	26.1	90.5	75.0	21.4
8.98	350	28.1	88.2	77.1	20.3
9.45	319	30.1	78.7	79.1	19.8
9.97	288	32.1	55.7		
10.5	260	34.1	52.2		
11.2	234	36.1	49.6		
11.6	223	38.1	40.8		

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## Dose Rate - Sta. 58 - VAG 40 - Zuni

H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
4.62	0.317	14.1	2.72	37.1	2.56
4.90	0.489	14.6	2.62	38.7	2.38
5.12	0.890	15.0	2.34	38.8	1.04
5.27	0.914	15.6	2.30	40.0	0.986
5.62	1.23	16.1	2.34	42.0	0.917
5.82	1.36	16.6	2.35	44.1	0.821
6.07	1.48	17.1	2.36	46.1	0.822
6.32	1.58	17.6	2.22	48.1	0.807
6.55	2.55	18.1	2.02	50.1	0.710
6.82	4.84	19.1	1.98	52.0	0.697
7.07	5.38	20.1	1.89	54.1	0.702
7.32	5.53	21.1	1.86	56.1	0.655
7.57	6.34	22.1	1.86	58.2	0.785
7.82	4.84	22.8	2.27	59.0	0.812
8.07	4.97	22.9	4.09	61.0	0.746
8.32	4.84	23.1	3.89	63.0	0.784
8.57	4.84	23.6	3.76	65.1	0.737
9.07	4.84	24.1	4.09	67.1	0.882
9.55	4.44	25.1	3.83	69.0	0.855
10.1	4.09	26.1	3.64	71.1	0.819
10.6	3.72	27.1	3.63	73.0	0.670
11.1	3.63	28.1	3.46	75.1	0.658
11.6	3.50	29.0	2.92	77.1	0.653
12.1	3.37	30.1	3.10	79.2	0.670
12.6	3.14	32.1	2.81		
13.1	3.02	34.1	2.73		
13.6	2.82	36.1	2.54		

Dose Rate - Sta. 64 - YAG 40 - Zuni

H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
4.32	0.409	13.5	1.10	30.1	0.409
4.62	0.728	14.1	1.02	32.0	0.409
4.82	0.916	14.5	1.03	33.9	0.368
5.07	1.40	15.1	0.923	36.1	0.317
5.32	1.95	15.6	0.862	38.0	0.286
5.53	2.22	16.0	0.819	40.0	0.286
5.78	2.31	16.2	1.17	42.2	0.278
6.03	2.72	16.3	1.59	43.9	0.266
6.05	3.08	16.4	1.09	45.3	0.251
6.55	3.02	16.6	1.41	48.1	0.243
6.82	3.24	16.7	1.33	49.8	0.218
7.10	3.62	17.1	1.24	51.9	0.206
7.32	3.02	17.5	1.01	54.1	0.192
7.57	2.82	17.8	1.14	56.4	0.197
7.85	2.55	17.9	1.19	58.0	0.189
8.05	2.16	18.0	1.12	60.3	0.185
8.32	2.15	18.6	1.01	62.0	0.179
8.55	1.97	19.1	0.970	63.7	0.170
9.02	1.70	19.6	0.993	66.3	0.168
9.57	1.62	20.0	0.827	68.1	0.164
10.0	1.55	21.1	0.749	70.0	0.159
10.6	1.50	22.1	0.663	71.9	0.155
11.0	1.37	23.1	0.659	73.9	0.152
11.6	1.24	24.0	0.629	75.9	0.145
12.1	1.12	25.0	0.608	79.1	0.140
12.6	1.13	26.1	0.476		
13.1	1.12	28.0	0.457		

Dose Rate - Sta. 67 - YAG 40 - Zuni

<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>
3.55	15.2	7.62	1540	18.0	527
3.62	23.6	7.78	1450	20.1	484
3.70	37.6	8.03	1240	21.0	467
3.77	54.8	8.33	1100	22.1	451
3.85	73.5	8.57	1060	24.0	424
3.98	70.6	8.82	1020	26.1	395
4.10	98.0	9.08	935	28.1	385
4.20	134	9.37	892	31.2	365
4.32	207	9.57	850	34.1	340
4.43	291	9.77	808	36.2	327
4.57	365	10.1	765	38.0	301
4.77	518	10.6	696	40.1	286
4.92	637	11.1	637	42.1	266
5.03	748	11.6	594	44.1	256
5.23	1100	12.1	561	46.1	247
5.37	1200	12.6	527	49.1	247
5.58	1370	13.1	497	53.1	216
5.70	1450	13.6	476	56.0	207
5.87	1540	14.1	451	59.1	197
6.08	1750	15.1	421	63.1	182
6.18	1790	15.3	408	66.1	172
6.33	1690	15.5	446	72.0	158
6.45	1660	15.8	561	78.0	143
6.70	1710	16.1	553	80.1	138
7.10	1790	16.8	544		
7.30	1710	17.1	544		
7.45	1620	17.6	535		

Dose Rate - Sta. 68 - YAG 40 - Zuni

<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>
3.53	18.6	7.07	1370	19.0	396
3.63	36.0	7.27	1170	20.0	384
3.70	50.4	7.57	1000	21.1	368
3.75	72.0	7.82	896	22.0	356
3.82	89.3	8.10	839	24.1	332
3.93	76.7	8.28	839	26.1	300
4.07	62.1	8.60	793	28.1	288
4.20	102	8.78	759	30.0	272
4.28	146	9.02	736	31.2	264
4.40	190	9.58	648	34.1	248
4.53	244	10.1	584	36.1	214
4.57	264	10.5	552	40.1	195
4.73	376	11.1	504	42.1	185
4.92	488	11.6	472	44.1	176
5.08	600	12.1	448	46.0	166
5.20	800	13.1	396	48.1	161
5.37	896	14.1	360	50.1	156
5.55	984			53.0	146
5.70	1080	14.9	336	56.1	141
5.87	1080	15.4	320	58.1	137
6.08	1210	15.6	400	62.1	124
6.20	1250	15.8	440	66.1	116
6.33	1210	16.1	440	72.0	104
6.40	1250	16.5	432	78.0	84.4
6.65	1350	17.1	428	80.2	77.6
6.72	1330	18.0	412		
6.83	1370				

[REDACTED]

Dose Rate - Sta. 71 - YAG 40 - Zuni

<u>H + hr</u>	<u>mr/hr</u>
4.28	0.740
4.43	1.19
4.53	1.61
4.70	2.26
4.82	2.53
4.93	3.12
5.10	4.10
5.32	5.83
5.58	6.75
5.73	7.50
6.00	8.25
6.27	10.6
6.63	11.2
7.00	10.6
7.13	16.4
7.25	12.1
7.50	10.4
8.00	9.33
9.00	7.35
10.0	6.75
11.0	5.97
12.0	5.68
13.0	5.22
14.0	5.07
15.0	4.63
16.0	4.03
17.0	4.17
18.0	2.16
20.0	1.28
21.0	1.15
22.0	0.991
24.0	0.887
26.0	0.740
30.0	0.592
42.0	0.399
54.0	0.311
66.0	0.266
78.0	0.225

[REDACTED]

Tabulated Dose Rates

YAG 39

Shot FLATHEAD

[REDACTED]

## Dose Rate - YAG 39 - FLATHEAD

Sta. 2

H + hr	mr/hr
6.23	0.175
7.00	0.378
7.32	0.434
7.65	0.531
8.00	0.784
9.00	1.12
10.0	1.54
11.0	1.90
12.0	1.82
13.0	1.75
14.0	1.65
15.0	1.54
17.0	1.37
18.0	1.26
20.0	1.12
22.0	1.02
24.0	0.951
26.0	0.445
28.0	0.364
30.0	0.336
35.0	0.252
41.0	0.210
45.0	0.182
50.0	0.168
55.0	0.153
60.0	0.140
75.0	0.105

Sta. 71

H + hr	mr/hr
4.00	0.004
6.23	0.154
6.90	0.294
7.32	0.342
7.73	0.433
8.00	0.550
8.23	0.599
8.48	0.675
8.65	0.735
8.82	0.811
9.00	0.864
9.23	0.916
9.35	0.961
9.48	1.02
10.0	1.14
10.7	1.31
11.6	1.23
13.3	1.11
15.0	0.993
16.7	0.872
18.5	0.781
20.1	0.675
22.1	0.615
24.1	0.386
26.8	0.213
28.7	0.142
31.0	0.160
32.6	0.148
33.4	0.142
35.2	0.133
36.2	0.124
37.0	0.118
39.1	0.112
41.2	0.107
42.3	0.104
45.4	0.093
48.1	0.087
50.6	0.080
54.2	0.070
59.1	0.066
62.1	0.061
67.1	0.056
70.6	0.053

Dose Rate - YAG 39 - FLATHEAD

Sta. 9		Sta. 9	
H + hr	mr/hr	H + hr	mr/hr
4.12	0.061	13.1	33.4
4.37	0.417	13.6	32.3
4.53	0.646	14.1	31.0
4.78	1.01	15.1	29.2
4.95	1.88	16.0	27.3
5.10	3.30	17.0	26.1
5.38	6.19	18.0	24.9
5.68	8.23	19.0	23.7
6.05	10.7	20.0	22.5
6.27	12.3	21.0	21.3
6.52	15.4	22.0	19.4
6.72	19.4	23.0	19.4
7.02	21.9	24.0	17.7
7.28	21.9	25.0	16.3
7.50	23.7	26.0	14.6
7.75	26.1	28.0	13.4
8.02	28.6	30.0	12.4
8.28	29.9	32.0	11.6
8.57	29.9	34.0	11.0
8.77	32.3	36.0	10.4
9.19	32.9	38.0	9.80
9.60	31.7	40.0	8.71
10.1	32.3	45.0	6.55
10.5	35.5	50.0	5.77
11.0	38.4	55.0	5.04
11.6	37.2	60.0	4.68
12.1	36.0	64.9	4.33
12.6	34.6	70.1	4.15
		75.0	3.50
		80.0	

Dose Rate - YAG 39 - FLATHEAD

Sta. 13

<u>H + hr</u>	<u>mr/hr</u>
4.62	3.34
5.23	21.8
5.57	42.9
6.57	45.6
7.07	78.4
7.57	87.8
8.57	121
9.00	121
10.0	121
11.0	141
12.0	131
13.0	121
15.0	102
18.0	83.0
22.0	69.0
26.0	55.0
30.0	46.5
36.0	39.2
42.0	33.7
47.0	28.2
48.0	21.8
54.0	15.4
66.0	10.8
75.0	9.27
76.0	6.30
80.0	6.04

Sta. 14

<u>H + hr</u>	<u>mr/hr</u>
4.85	3.70
5.27	12.7
5.57	24.2
6.57	50.7
7.07	87.0
7.57	76.6
8.57	103
9.00	124
10.0	135
11.0	156
12.0	135
13.0	124
15.0	103
18.0	81.8
22.0	68.3
26.0	39.4
30.0	31.3
36.0	26.2
42.0	23.1
47.0	20.1
48.0	15.6
54.0	12.5
66.0	9.70
75.0	8.20
76.0	5.50
80.0	5.10

Dose Rate - YAG 39 - FLATHEAD

<u>H + hr</u>	<u>Sta. 17 mr/hr</u>	<u>Sta. 18 mr/hr</u>	<u>Sta. 19 mr/hr</u>	<u>Sta. 20 mr/hr</u>	<u>Sta. 22 mr/hr</u>	<u>Sta. 23 mr/hr</u>
10	2.30	6.45	101	62.0	0.350	17.1
20	1.10	3.19	61.7	31.5	0.123	8.23
30	0.60 <sup>4</sup>	1.77	40.0	19.6	0.0556	4.90

## Dose Rate - YAG 39 - FLATHEAD

**Sta. 25**

<u>H + hr</u>	<u>mr/hr</u>
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3.58	0.030
4.70	0.376
4.95	0.776
5.07	1.36
5.17	1.73
5.25	2.14
5.30	2.23
5.37	2.65
5.42	2.93
5.47	3.08
5.52	3.52
6.00	4.80
7.00	10.0
8.08	12.4
8.87	14.1
9.60	14.8
10.3	15.7
10.9	16.6
11.6	15.7
12.3	13.8
13.1	12.7
13.9	12.0
14.8	11.2

**Sta. 25**

<u>H + hr</u>	<u>mr/hr</u>
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15.8	10.5
16.8	9.83
17.9	9.23
19.1	8.64
20.0	8.31
24.0	6.68
26.0	5.63
28.0	5.38
30.0	4.95
32.0	4.67
34.0	4.38
36.0	4.08
38.0	3.80
40.0	3.65
42.0	3.37
45.0	3.08
48.0	2.23
50.0	2.08
55.0	1.88
60.0	1.57
65.0	1.44
70.0	1.33
75.0	1.22
79.9	0.783

Dose Rate - YAG 39 - FLATHEAD

Sta. 28

<u>H + hr</u>	<u>mr/hr</u>
4.72	0.179
5.23	0.617
5.58	1.12
5.85	1.23
6.07	1.47
6.25	1.70
6.55	2.37
6.80	2.78
7.00	2.92
7.17	2.96
7.27	2.88
7.37	3.10
7.60	3.10
7.73	3.25
7.85	3.44
8.00	3.56
8.32	3.71
8.60	3.85
8.85	4.14
9.15	4.45
9.50	4.29
9.65	4.45
10.0	4.45
10.2	4.75
10.4	5.19
10.6	5.05
11.0	4.90
11.6	4.75
12.0	4.14
13.0	3.71

Sta. 28

<u>H + hr</u>	<u>mr/hr</u>
14.0	3.40
15.0	3.10
16.0	2.95
17.0	2.81
18.0	2.51
19.0	2.43
20.0	2.22
22.0	2.07
24.0	2.00
26.0	1.54
28.0	1.40
30.0	1.31
32.0	1.22
34.0	1.12
36.0	1.06
38.0	1.02
40.0	0.941
42.0	0.896
44.0	0.838
46.0	0.801
48.0	0.623
50.0	0.588
54.0	0.535
58.0	0.470
62.0	0.437
66.0	0.406
70.0	0.382
74.0	0.356
78.0	0.250

Dose Rate - YAG 39 - FLATHEAD

Sta. 39		Sta. 39		Sta. 68	
H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
5.15	1.41	11.0	9.13	4.65	2.79
5.77	2.38	12.0	7.70	6.23	5.50
6.15	3.39	12.9	6.60	6.90	7.70
6.45	4.73	14.0	6.26	8.00	11.0
6.65	5.83	15.0	6.10	9.00	11.0
6.85	5.72	16.0	5.72	10.0	9.90
7.03	6.10	18.0	5.17	11.0	10.8
7.20	6.10	20.0	4.61	12.0	9.02
7.38	6.44	25.0	4.02	13.0	7.70
7.53	7.04	29.9	3.52	14.0	7.70
7.70	7.48	35.0	2.95	16.0	7.26
7.98	8.14	40.3	2.50	18.0	6.50
8.25	8.36	44.9	2.27	22.0	5.40
8.37	7.81	50.3	1.78	26.0	4.84
8.67	8.14	54.1	1.73	30.0	4.51
8.92	8.46	58.1	1.58	36.0	3.96
9.18	8.69	61.8	1.52	42.0	3.36
9.32	8.57	65.5	1.42	47.0	3.41
9.45	8.36	68.7	1.36	48.0	3.58
9.83	8.36	72.0	1.32	49.0	3.54
9.98	8.46	76.6	1.08	50.0	3.44
10.2	8.90	79.0	0.940	54.0	3.14
10.5	9.35			60.0	2.64
				66.0	2.38
				74.0	2.26
				76.0	2.06
				78.0	1.65

**TABULATED DOSE RATES**

**YAG 40**

**SHOT FLATHEAD**

Dose Rate - YAG 40 - Flathead

Sta. 2		Sta. 3	
H + hr	mr/hr	H + hr	mr/hr
6.00	0.076	6.00	0.690
8.00	0.076	8.40	1.50
9.00	0.152	9.00	2.53
10.0	0.274	10.0	9.89
11.0	0.609	11.0	23.1
12.0	0.852	12.0	32.4
13.0	0.715	13.0	36.0
14.0	0.578	14.0	37.2
15.0	0.563	15.0	34.7
16.0	0.578	16.0	37.2
17.0	0.563	17.0	49.4
18.0	0.533	18.0	49.4
19.0	0.524	19.0	37.2
20.0	0.504	20.0	34.2
21.0	0.474	21.0	33.6
22.0	0.456	22.0	22.0
23.0	0.426	23.0	15.4
25.0	0.395	25.0	13.8
29.7	0.474	30.0	11.7
30.0	0.532	35.0	9.89
30.2	0.548	40.0	8.97
30.6	0.524	45.0	8.23
31.0	0.593	50.0	5.58
31.3	0.609	55.0	5.03
31.6	0.624	58.0	4.37
31.8	0.600	63.0	4.26
35.0	0.532	70.0	4.09
40.0	0.411		
45.0	0.365		
50.0	0.304		
55.0	0.274		
58.0	0.258		
63.0	0.243		
70.0	0.228		
75.0	0.183		

Dose Rate - YAG 40 - Flathead

Sta. 9

H + hr	mr/hr
6.00	0.050
8.00	0.550
9.00	5.10
10.0	17.4
11.0	48.0
12.0	71.1
15.0	71.1
16.0	81.5
17.0	81.5
18.0	81.5
19.0	71.1
20.0	71.1
21.0	69.7
22.0	59.4
23.0	58.2
25.0	53.0
30.0	39.0
35.0	35.2
40.0	30.0
45.0	27.6
50.0	16.2
55.0	14.9
58.0	13.7
63.0	12.4
70.0	11.1
75.0	10.4
79.0	9.20

Sta. 13

H + hr	mr/hr
6.00	0
8.00	1.93
8.57	8.18
9.00	17.4
9.57	38.0
10.0	61.9
11.0	142
12.0	225
13.0	248
14.0	237
15.0	237
16.0	248
17.0	259
18.0	248
19.0	237
20.0	231
21.0	225
22.0	214
23.0	197
24.0	180
30.0	145
35.0	125
40.0	109
45.0	88.4
50.0	56.8
55.0	52.3
58.0	46.6
63.0	44.4
70.0	39.9
75.0	37.6
79.0	22.1

## Dose Rate - YAG 40 - Flathead

Sta. 14

Sta. 26

H + hr	mr/hr		H + hr	mr/hr
6.00	0		10.0	0
8.23	2.02		14.0	0.129
8.65	7.12		15.0	0.136
9.00	10.7		16.4	0.136
9.57	27.9		18.0	0.136
10.0	54.8		20.0	0.119
11.0	142		22.0	0.114
12.0	209		25.0	0.102
13.0	230		30.0	0.077
14.0	220			
15.0	220			
16.0	262			
17.0	273			
18.0	273			
19.0	262			
20.0	252			
21.0	252			
22.0	231			
23.0	188			
25.0	172			
30.0	140			
35.0	124			
40.0	108			
45.0	92.5			
50.0	55.7			
55.0	51.6			
58.0	44.2			
63.0	42.1			
70.0	37.7			
75.0	35.6			
75.2	33.2			
79.0	19.4			

[REDACTED]

Dose Rate - YAG 40 - Flathead

	Sta. 16	Sta. 17	Sta. 18	Sta. 20
<u>H + hr</u>	<u>mr/hr</u>	<u>mr/hr</u>	<u>mr/hr</u>	<u>mr/hr</u>
10	58.0	0.992	3.11	23.6
20	209	2.70	9.54	84.0
30	138	1.44	4.93	48.3
41	97.8	1.05	3.59	34.2
50	67.7	0.578	2.06	20.4

	Sta. 21	Sta. 22	Sta. 24
<u>H + hr</u>	<u>mr/hr</u>	<u>mr/hr</u>	<u>mr/hr</u>
10	12.2	0.228	38.3
20	42.5	0.408	13 <sup>4</sup>
30	22.9	0.214	84.0
41	19.8	0.188	59.4
50	9.45	0.082	34.7

Dose Rate - Sta. 25 - YAG 40  
 Flathead

<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>
7.78	0.106	21.6	16.2
8.12	0.307	22.4	15.2
8.35	0.518	23.2	14.3
8.53	0.729	24.1	13.7
8.67	0.931	25.0	13.3
8.90	1.26	25.9	12.7
9.10	1.51	26.9	12.2
9.25	1.86	28.0	11.7
9.43	2.53	29.0	11.6
9.62	3.48	30.0	10.8
9.82	4.43	31.0	10.8
10.0	5.39	33.0	10.0
10.3	6.82	35.0	9.24
10.6	8.90	38.0	8.42
11.0	12.5	42.0	7.63
11.3	15.8	46.0	6.65
12.0	17.1	48.0	5.21
12.7	18.6	51.0	4.27
13.4	18.1	54.0	4.11
14.1	17.6	58.0	3.64
14.8	17.3	61.0	3.49
15.5	18.6	64.0	3.31
16.1	19.5	66.0	3.16
17.4	19.3	69.0	3.08
18.0	19.0	72.0	2.38
18.8	18.5	76.0	2.69
19.4	18.0	77.0	2.30
20.1	17.3	79.0	2.22
20.8	17.0		

Dose Rate - YAG 40 - Flathead

Sta. 67

<u>H + hr</u>	<u>mr/hr</u>
6.57	0
7.57	0.48
8.07	2.04
8.35	3.96
8.65	7.33
9.00	11.5
9.23	15.1
9.32	16.3
9.40	18.7
9.48	22.4
9.57	26.0
9.65	9.50
9.82	6.01
10.0	5.77
10.2	5.64
10.5	6.60
10.6	8.80
10.7	10.2
10.9	9.50
11.1	9.70
11.6	10.5
11.8	11.4
12.0	10.2
13.0	8.30
14.0	6.84
15.0	7.93
16.0	9.24
17.0	7.93
18.0	7.44
20.0	6.12
25.0	4.92
30.0	4.68
34.9	4.20
40.0	3.24
50.0	1.80
55.0	1.90
60.0	1.44
70.0	1.32
75.0	1.08
80.0	0.60

Sta. 68

<u>H + hr</u>	<u>mr/hr</u>
6.57	0.13
7.57	0.26
8.07	2.36
8.32	3.82
8.65	9.50
9.00	16.2
9.23	19.8
9.32	22.2
9.40	25.2
9.48	30.2
9.57	31.3
9.65	7.70
9.82	6.50
10.0	6.15
10.2	5.90
10.5	7.58
10.6	10.5
10.7	10.2
10.9	9.50
11.1	9.72
11.6	10.2
11.8	9.88
12.0	9.61
13.0	8.06
14.0	6.50
15.0	8.06
16.0	8.78
17.0	8.30
18.0	6.86
20.0	6.62
24.9	5.19
30.0	4.34
34.9	3.74
40.0	3.14
50.0	1.94
55.0	2.30
60.0	1.82
70.0	1.58
75.0	1.34
79.6	0.98

## Dose Rate - YAG 40 - Flathead

Sta. 64		Sta. 70		Sta. 71	
<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>
12.0	0.180	8.32	1.05	9.57	0.133
13.0	0.180	9.20	2.62	10.5	0.237
14.0	0.165	9.53	3.68	10.9	0.340
15.0	0.176	9.93	2.27	11.2	0.496
16.0	0.176	10.5	2.62	11.6	0.577
17.0	0.173	10.8	3.20	11.8	0.636
18.0	0.180	11.2	2.83	12.0	0.630
20.0	0.173	11.7	2.57	13.0	0.695
22.0	0.165	12.1	2.19	14.0	0.680
25.0	0.142	12.7	1.68	15.0	0.665
30.0	0.117	13.6	1.06	16.0	0.695
35.0	0.120	14.6	1.25	17.0	0.695
40.0	0.101	15.4	1.63	18.0	0.680
45.0	0.102	16.2	1.53	20.0	0.651
		17.0	1.16	24.9	0.503
		18.1	0.990	30.0	0.400
		19.4	0.825	34.9	0.400
		20.9	0.742	40.0	0.385
		22.7	0.619	50.0	0.267
		24.6	0.575	55.0	0.252
		26.6	0.542	60.0	0.222
		28.8	0.506	70.0	0.192
				75.0	0.178

TABULATED DOSE RATES

YAG 39

SHOT NAVAJO

Dose Rate - YAG 39 - Navajo

Sta. 2

<u>H + hr</u>	<u>mr/hr</u>
2.45	0.521
2.65	0.759
2.82	0.752
3.00	1.01
3.20	1.21
3.40	1.54
3.57	2.27
3.70	3.24
3.82	4.30
4.00	6.87
4.11	9.17
4.18	11.4
4.23	8.46
4.40	9.19
4.57	9.76
4.75	10.0
4.82	11.4
5.07	11.0
5.32	11.7
5.57	14.1
5.82	16.6
6.00	17.2
6.12	18.1
6.58	18.8
6.82	18.1
7.00	17.6
7.12	18.1
7.58	18.5
7.82	18.1
8.00	17.6
8.57	17.2
9.00	16.3
9.32	16.3
9.57	17.2
9.82	16.3
10.6	15.8
11.0	15.4
11.6	14.5

Sta. 2

<u>H + hr</u>	<u>mr/hr</u>
12.0	14.7
12.6	14.2
13.0	13.6
14.0	13.1
14.6	12.7
15.0	11.7
15.6	9.82
16.0	9.10
17.0	8.83
18.0	8.02
19.0	7.68
20.0	7.39
21.1	7.07
22.0	6.49
23.0	6.04
24.0	5.68
25.0	5.28
27.0	4.92
28.1	4.06
29.0	3.70
30.0	3.69
31.0	3.66
32.9	3.52
33.9	3.54
35.9	3.52
36.9	3.43
39.1	3.09
41.9	2.83
43.0	2.59
44.0	2.52
46.0	2.32
49.0	1.99
52.0	1.74
55.0	1.55
59.1	1.46
62.1	1.39
65.0	1.31
73.9	1.14

Dose Rate - YAG 39 ~ Navajo

Sta. 9

<u>H + hr</u>	<u>mr/hr</u>
1.97	0.161
2.22	4.00
2.38	14.4
2.47	21.4
2.55	33.5
2.65	48.2
3.00	68.3
3.30	88.2
3.50	95.7
3.70	144
3.87	207
4.18	372
4.42	431
4.62	481
4.85	485
5.17	498
5.33	525
5.48	507
5.67	516
5.85	516
6.02	512
6.37	481
6.57	471
6.77	445
7.18	422
7.40	400
7.63	386
8.10	361
8.37	347
8.62	329
9.18	304
9.48	289
9.78	267
10.2	259
10.5	246
10.9	232
11.3	222

Sta. 9

<u>H + hr</u>	<u>mr/hr</u>
11.6	207
12.1	203
12.6	193
13.0	184
14.1	168
15.2	149
16.0	80.0
17.0	60.7
18.0	58.1
19.0	56.9
20.0	53.1
21.0	45.8
22.0	36.1
23.0	34.7
24.0	32.4
26.0	29.9
27.0	25.0
28.0	22.6
30.0	22.0
32.0	21.4
34.0	19.6
36.0	18.4
38.0	17.8
40.0	17.2
42.0	16.0
44.0	15.3
46.0	14.6
48.0	13.9
50.0	13.2
55.0	11.7
59.0	10.6
60.0	11.7
64.0	10.1
70.1	9.15
73.9	8.43

Dose Rate - YAG 39 - Navajo

Sta. 13		Sta. 13	
H + hr	mr/hr	H + hr	mr/hr
1.82	0.78	13.0	305
2.30	11.0	13.6	288
2.37	18.7	14.1	277
2.43	36.1	14.6	266
2.50	73.3	15.0	243
2.68	110	15.6	221
2.78	101	15.7	132
3.00	143	16.0	110
3.12	177	16.6	108
3.40	221	17.0	106
3.65	310	18.0	98.7
3.90	558	19.0	92.1
4.12	900	20.0	88.9
4.32	1240	21.0	76.7
4.57	1070	22.0	69.1
4.82	900	23.0	65.8
5.00	900	24.0	63.8
5.32	1010	25.0	61.3
5.57	1130	26.0	59.1
5.82	1130	27.0	53.6
6.00	1490	28.0	51.4
6.32	1240	30.0	48.1
6.57	1130	32.0	44.8
6.82	900	34.0	42.3
7.00	773	36.0	41.0
7.32	728	38.0	39.3
7.57	671	40.0	37.5
7.82	624	42.0	35.8
8.32	603	44.0	34.5
8.82	557	47.0	31.8
9.32	502	50.0	29.1
9.82	468	53.0	25.4
10.3	434	56.0	23.6
10.8	412	59.0	23.6
11.6	378	64.0	21.8
12.0	344	66.0	20.8
12.6	332	74.0	18.1

Dose Rate - YAG 39 - Navejo

Sta. 14

H + hr	mr/hr
2.30	7.54
2.40	13.6
2.50	35.0
2.58	81.5
2.65	101
2.82	143
3.02	190
3.12	211
3.40	190
3.57	185
3.73	211
3.90	275
4.07	331
4.23	613
4.33	857
4.60	1260
4.85	1520
5.00	1650
5.30	1770
5.57	1440
6.00	1310
6.32	1330
6.58	1350
7.07	1180
7.35	1060
7.62	1050
8.00	1010
8.32	966
8.62	924
9.32	824
9.60	772
10.3	689
10.6	672
11.1	630
11.6	580
12.1	546
12.4	529
13.0	486
13.6	462
14.2	429
14.6	411

Sta. 14

H + hr	mr/hr
15.0	395
15.4	390
15.6	318
15.7	169
16.0	126
16.5	121
17.0	121
18.0	110
19.0	103
20.0	97.3
21.0	85.8
22.0	76.3
23.0	73.2
24.0	71.1
25.0	67.9
26.0	65.8
27.0	59.6
28.0	56.3
30.0	53.2
32.0	50.1
34.0	47.4
36.0	45.3
38.0	43.3
40.0	40.8
42.0	39.1
44.0	37.5
47.0	35.0
50.0	31.0
53.0	27.9
56.0	25.9
59.0	23.9
64.0	23.9
66.0	21.8
74.0	18.8

Dose Rate - YAG 39 - Navajo

H + hr	Sta. 17 <u>mr/hr</u>	Sta. 18 <u>mr/hr</u>	Sta. 19 <u>mr/hr</u>	Sta. 20 <u>mr/hr</u>	Sta. 22 <u>mr/hr</u>	Sta. 23 <u>mr/hr</u>
4	22.2	45.0	504	234	3.56	102
10	26.9	58.9	545	172	5.96	115
15	14.6	30.3	297	124	3.03	58.0

Dose Rate - YAG 39 - Navajo

Sta. 25

<u>H + hr</u>	<u>mr/hr</u>
2.23	1.08
2.28	2.59
2.40	4.46
2.48	8.26
2.57	11.4
2.82	20.1
3.07	29.4
3.48	32.5
3.73	49.4
3.90	74.0
4.03	95.5
4.57	164
5.00	185
5.32	190
5.57	190
5.97	190
6.07	185

Sta. 25

<u>H + hr</u>	<u>mr/hr</u>
7.02	148
8.07	114
9.00	101
10.0	86.0
12.0	66.1
14.0	52.5
15.0	47.6
15.7	28.6
16.1	18.7
17.0	15.3
23.1	9.03
28.0	6.75
32.0	5.97
42.0	4.61
54.0	3.49
66.0	2.80
74.0	2.32

Dose Rates - YAG 39 - Navajo

Sta. 28		Sta. 39		Sta. 64	
H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
2.40	1.48	2.48	5.70	3.00	0.274
2.48	2.47	2.60	9.00	3.57	0.341
2.60	4.40	3.00	11.5	4.00	1.11
3.00	6.65	3.57	19.1	4.32	1.75
3.57	10.2	4.00	65.1	5.00	2.07
4.00	29.4	4.32	92.2	6.00	3.11
4.32	50.3	5.00	103	7.07	2.78
5.00	51.4	6.00	103	9.12	2.52
6.00	54.6	7.02	81.8	13.0	2.14
7.02	42.8	9.12	56.9	15.0	1.72
9.12	29.8	13.0	35.3	15.6	1.53
13.0	19.9	15.0	31.3	16.0	1.43
15.0	15.1	15.6	29.2	17.0	1.38
15.6	15.1	16.0	17.6	18.0	1.18
16.0	7.45	17.0	18.1	19.0	1.10
17.0	7.45	18.0	17.1	21.0	1.02
18.0	6.70	19.0	16.1	24.0	0.832
19.0	6.40	21.0	13.0	27.0	0.609
21.0	5.19	24.0	10.0		
24.0	4.15	26.0	9.00		
26.0	3.56				

Dose Rate - YAG 39 - Navajo

Sta. 67

<u>H + hr</u>	<u>mr/hr</u>
2.30	13.1
2.40	12.5
2.48	15.4
2.57	18.1
3.00	22.9
3.33	26.6
3.58	43.8
3.73	71.4
3.90	120
4.00	133
4.32	167
4.57	178
5.00	190
5.32	176
5.57	167
6.00	167
6.57	149
7.03	141
8.00	123
9.00	103
10.0	92.7
11.0	84.5
12.0	84.5
13.0	77.3
14.0	73.8
15.0	71.3
15.6	47.2
15.8	43.7
16.0	36.6
17.0	41.3

Sta. 67

<u>H + hr</u>	<u>mr/hr</u>
18.0	36.6
19.0	37.8
20.0	34.2
21.0	29.5
22.0	27.0
23.0	25.9
24.0	24.7
25.0	23.5
26.0	22.8
27.0	20.6
28.0	19.4
29.0	19.1
30.0	18.6
31.0	18.1
35.0	15.9
39.0	14.9
42.0	14.1
46.0	11.9
49.0	11.9
52.0	10.8
55.0	10.6
58.0	10.3
61.0	9.84
64.0	8.90
67.1	8.65
71.0	8.20
74.0	6.90

Dose Rate - YAG 39 - Navajo

Sta. 68

<u>H + hr</u>	<u>mr/hr</u>
2.28	12.3
2.37	13.5
2.47	12.1
2.53	15.7
2.58	17.1
2.65	18.2
2.78	16.3
2.85	15.9
2.92	16.3
3.00	18.2
3.15	17.1
3.32	18.2
3.48	27.7
3.67	38.8
3.82	75.1
4.0	123
4.32	148
4.58	167
4.82	161
5.07	166
5.35	150
5.82	156
6.00	156
6.33	137
6.57	132
6.98	120
7.57	108
8.00	100
8.32	119
8.48	107
9.07	82.0
10.0	73.0
11.0	68.0
12.0	66.0
13.0	60.0
14.0	56.0

Sta. 68

<u>H + hr</u>	<u>mr/hr</u>
15.0	56.0
15.5	57.5
16.0	50.0
17.0	32.1
18.0	32.1
19.0	29.9
20.0	28.8
21.0	24.3
22.0	21.9
23.0	21.0
24.0	19.9
25.0	19.4
26.0	18.8
27.0	16.6
28.0	15.8
29.0	15.3
30.0	15.0
31.0	14.3
32.0	13.9
33.0	13.6
34.0	13.2
37.0	12.7
40.0	11.6
42.0	11.1
45.0	10.6
47.0	10.2
50.0	9.66
52.0	9.01
55.0	8.80
58.0	8.13
61.0	7.80
64.0	7.36
66.0	7.15
74.0	6.31

Dose Rate - YAG 39 - Navajo

Sta. 70

H + hr	mr/hr
2.23	2.19
2.30	3.95
2.33	5.29
2.38	3.06
2.42	3.51
2.45	4.84
2.48	5.57
2.50	6.61
2.53	7.36
2.58	9.60
2.62	11.1
2.65	8.85
2.68	7.36
2.82	6.02
3.00	9.60
3.08	10.3
3.10	11.1
3.15	9.60
3.23	7.30
3.32	8.10
3.40	8.56
3.48	10.3
3.57	13.4
3.65	11.9
3.73	19.5
3.82	23.7
3.87	29.2
3.90	32.2
4.02	37.3
4.32	41.1
4.57	42.2
4.82	34.8
5.00	32.2
5.35	31.7
5.57	29.2
5.82	29.2
6.00	27.8
6.33	20.8
6.57	18.6
7.00	15.3
7.32	14.8

Sta. 70

H + hr	mr/hr
7.57	12.8
8.00	12.3
8.32	17.4
8.48	18.7
8.57	11.6
8.82	9.62
9.07	9.48
9.32	8.44
9.57	8.63
9.95	8.38
10.6	7.82
11.0	7.89
12.0	8.86
13.0	7.64
14.0	8.01
15.0	7.52
15.4	8.11
15.5	8.85
15.6	4.40
16.0	3.02
17.0	3.21
18.0	3.21
19.0	2.92
20.0	2.84
21.0	2.49
22.0	2.12
24.0	1.97
26.0	1.74
28.0	1.47
30.0	1.39
32.0	1.32
34.0	1.25
37.0	1.16
40.0	1.06
45.0	0.986
50.0	0.885
55.0	0.754
61.0	0.696
65.9	0.667
74.0	0.554

## Dose Rate - YAG 39 - Navajo

Sta. 71

<u>H + hr</u>	<u>mr/hr</u>
2.57	0.441
2.77	0.788
3.00	0.667
3.15	0.757
3.28	0.952
3.40	1.18
3.53	1.39
3.62	1.78
3.68	2.04
3.78	2.92
4.00	4.75
4.32	8.30
4.57	8.00
4.82	10.2
5.00	9.88
5.35	9.88
5.57	10.6
5.82	13.0
6.00	15.4
6.33	13.8
6.57	15.4
7.00	13.8
7.57	13.8
8.00	13.0
8.32	12.2
8.48	12.2
8.60	13.8
8.82	12.2
9.07	12.2
9.32	11.5
10.0	11.5
10.6	11.5
11.0	10.7

Sta. 71

<u>H + hr</u>	<u>mr/hr</u>
12.0	10.7
13.0	9.88
14.0	9.09
15.0	7.86
15.5	7.38
16.0	6.78
17.0	6.78
18.0	5.98
19.0	5.68
20.0	5.53
21.0	5.21
22.0	4.60
23.0	4.37
24.0	4.14
25.0	3.84
26.0	3.54
27.0	3.22
28.0	2.92
29.0	2.61
30.0	2.76
32.0	2.69
34.0	2.61
37.0	2.46
40.0	2.31
42.0	2.01
45.0	1.75
47.0	1.45
50.0	1.30
52.0	1.09
55.0	0.940
61.0	0.847
66.0	0.773
73.9	0.675

[REDACTED]

TABULATED DOSE RATES

YAG 40

Shot Navajo

[REDACTED]

Dose Rate - Sta. 2 - YAG 40 - Navajo

<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>
6.62	0.010	16.8	2.01	38.0	0.650
7.07	0.088	17.0	2.16	40.0	0.606
7.43	0.216	17.5	1.86	42.0	0.545
7.80	0.107	18.0	1.61	44.0	0.500
8.57	0.100	19.0	1.54	46.0	0.455
8.83	0.380	20.0	1.66	48.0	0.424
9.07	0.682	20.4	2.29	50.0	0.391
9.30	0.720	20.6	2.40	53.0	0.360
9.64	1.11	20.8	2.34	57.0	0.337
9.93	1.46	21.0	2.53	60.0	0.302
10.3	1.48	21.3	3.47	64.0	0.251
10.6	1.85	21.6	2.97	68.0	0.224
10.8	1.99	22.0	2.38	72.0	0.193
11.1	2.16	22.6	1.65	75.2	0.169
11.4	2.04	23.1	1.46		
11.7	1.85	23.5	1.38		
12.0	1.95	24.0	1.34		
12.5	2.14	25.0	1.26		
13.0	2.07	25.6	1.17		
13.5	2.02	25.8	1.34		
14.0	2.03	26.0	1.44		
14.5	2.01	27.0	1.19		
15.0	1.87	28.0	1.06		
15.5	1.95	29.0	1.02		
15.9	2.07	30.0	0.960		
16.3	2.49	32.0	0.850		
16.6	2.14	34.0	0.790		
		36.0	0.720		

Dose Rate - Sta. 3 - YAG 40 - Navajo

<u>H + hr</u>	<u>mr/hr</u>	<u>H + hr</u>	<u>mr/hr</u>
7.02	1.01	19.0	19.7
7.85	2.30	20.0	15.6
8.33	2.46	21.0	5.35
8.69	4.60	22.0	4.37
8.90	7.14	23.0	4.18
9.18	9.31	24.2	4.02
9.40	11.8	26.0	3.68
9.58	12.6	28.1	3.03
9.67	13.1	30.1	2.87
9.75	14.0	32.2	2.60
9.83	13.6	33.1	2.64
10.0	14.9	34.9	2.41
10.2	16.3	37.9	2.30
10.4	17.3	42.0	2.15
10.6	18.7	45.9	1.96
10.8	19.7	50.3	1.76
11.1	20.4	53.9	1.55
11.3	23.1	57.9	1.36
11.6	24.6	62.2	1.33
12.0	25.4	65.7	1.24
12.3	26.3	70.5	1.14
12.5	25.4	74.7	1.07
12.8	24.8		
14.0	24.3		
15.0	23.1		
16.0	23.1		
17.0	21.4		
18.0	20.4		

Dose Rate - YAG 40 - NAVAJO

Sta. 9

<u>H + Hr</u>	<u>mr/hr</u>
5.07	0.146
6.02	0.120
6.23	0.175
6.38	0.260
6.62	0.370
6.87	0.590
6.98	0.800
7.09	1.44
7.14	1.30
7.18	1.88
7.26	2.31
7.36	3.61
7.52	3.55
7.73	4.30
7.93	4.80
8.10	5.55
8.45	7.05
8.69	9.30
8.90	13.1
9.12	19.0
9.27	22.2
9.42	24.1
9.55	26.0
9.70	28.3
9.90	31.0
10.1	33.6
10.3	34.8
10.5	38.7
10.8	42.5
11.0	45.7
11.3	49.3
11.6	51.2
11.9	52.7
12.1	52.7
12.3	55.3
12.5	55.3
12.7	57.8
12.9	55.3

Sta. 9

<u>H + hr</u>	<u>mr/hr</u>
14.0	55.3
15.0	55.3
16.0	55.3
17.0	55.3
17.6	51.4
18.0	50.2
19.0	48.8
20.0	46.3
21.0	25.9
22.0	21.0
23.0	18.4
24.0	17.7
25.0	16.6
26.0	16.2
27.0	14.3
28.0	13.9
29.0	13.1
30.0	12.5
32.0	11.8
34.0	10.8
36.0	10.3
38.0	9.80
40.0	9.20
42.0	9.40
44.0	9.10
46.0	8.20
48.0	7.70
51.0	7.40
54.0	6.05
55.0	6.55
56.0	6.30
58.0	6.18
59.0	5.55
60.0	5.49
62.0	5.30
65.0	4.93
69.0	4.68
75.0	4.18

Dose Rate - YAG 40 - NAVAJO

Sta. 13		Sta. 13	
H + hr	mr/hr	H + hr	mr/hr
4.83	0.200	15.9	103
5.57	0.556	16.9	101
6.12	0.808	18.0	91.4
6.65	1.80	18.9	87.0
6.97	3.15	20.0	82.5
7.18	6.64	20.2	70.1
7.30	10.0	20.4	36.2
7.47	11.4	21.0	27.4
7.63	12.4	22.0	24.1
7.80	13.7	23.0	21.3
7.95	14.3	24.0	21.9
8.10	13.1	25.0	20.8
8.33	13.0	26.0	19.7
8.48	13.5	27.0	17.0
8.62	16.0	28.0	16.4
8.75	18.6	29.0	15.4
8.85	27.4	30.0	14.9
9.02	38.2	32.0	14.3
9.27	51.4	34.0	13.4
9.47	56.5	36.0	12.9
9.67	63.9	38.0	12.0
9.98	74.5	40.0	11.7
10.3	80.2	42.0	11.1
10.6	92.0	44.0	10.6
11.0	103	46.0	10.2
11.3	120	48.0	9.58
11.6	122	50.2	9.15
12.0	125	52.1	7.84
12.2	129	54.0	7.62
12.3	126	56.0	4.79
12.5	129	57.9	4.46
12.7	120	60.1	4.35
13.0	116	64.0	4.08
13.5	113	68.1	3.81
14.0	113	72.0	3.48
15.0	105	74.9	3.32

Dose Rate - YAG 40 - NAVAJO

Sta. 14

<u>H + hr</u>	<u>mr/hr</u>
5.72	0.456
6.48	1.20
6.95	2.48
7.08	5.32
7.40	11.5
7.48	12.7
7.65	13.9
7.82	15.6
7.97	15.8
8.10	16.1
8.53	18.1
8.65	22.7
8.87	34.3
9.13	45.4
9.33	62.2
9.50	71.7
9.63	72.7
9.92	75.8
10.3	96.8
10.6	101
11.0	109
11.3	126
11.6	138
12.0	142
12.2	144
12.3	142
12.5	136
12.7	132
13.0	125
13.6	123
14.0	120
15.0	110
16.1	103
17.0	96.9

Sta. 14

<u>H + hr</u>	<u>mr/hr</u>
17.9	89.5
19.0	85.2
20.0	80.0
20.2	78.0
20.4	40.7
21.0	24.5
22.0	19.1
23.0	18.5
24.0	17.3
25.0	16.7
26.0	13.7
27.0	13.8
28.0	13.1
29.0	12.5
30.0	12.0
32.0	11.4
34.0	10.2
36.0	9.76
38.0	9.15
40.0	8.80
42.0	8.32
44.0	8.08
46.0	7.77
48.0	7.48
50.1	7.00
52.0	5.92
54.0	5.80
56.0	4.11
58.1	3.92
60.1	3.82
64.2	3.64
68.1	3.37
71.0	3.16
75.1	2.86

Dose Rate - YAG 40 - NAVAJO

<u>H + hr</u>	Sta. 16 <u>mr/hr</u>	Sta. 17 <u>mr/hr</u>	Sta. 18 <u>mr/hr</u>	Sta. 20 <u>mr/hr</u>	Sta. 21 <u>mr/hr</u>	Sta. 22 <u>mr/hr</u>	Sta. 24 <u>mr/hr</u>
10	71.9	2.29	5.70	39.5	23.4	0.615	47.9
15	102	2.91	6.90	56.5	34.9	0.813	66.4
20	77.2	1.78	4.45	36.3	20.9	0.443	49.4
25	21.6	0.242	0.724	7.20	3.56	-	13.5
30	16.2	0.161	0.479	5.19	2.53	-	9.76

Dose Rate - YAC 40 - NAVAJO

Sta. 25		Sta. 25		Sta. 64	
H + hr	mr/hr	H + hr	mr/hr	H + hr	mr/hr
5.48	0.100	16.0	11.0	10.7	0.465
6.40	0.150	17.0	9.90	11.1	0.511
6.90	0.321	18.0	9.40	12.1	0.586
7.17	0.732	19.0	8.49	13.1	0.646
7.32	1.19	20.0	7.85	14.1	0.630
7.55	1.44	20.2	6.54	15.1	0.600
7.73	1.71	20.4	3.69	15.6	0.645
7.82	1.82	20.6	3.52	16.1	0.690
7.90	1.86	20.8	3.05	17.1	0.690
7.98	1.77	21.0	2.66	18.1	0.660
8.15	1.71	21.5	2.42	19.1	0.600
8.33	1.66	22.0	2.27	20.1	0.555
8.52	1.96	23.0	2.08	20.6	0.630
8.77	3.16	24.0	1.95	21.1	0.675
9.00	4.64	26.0	1.80	21.6	0.690
9.20	6.21	28.0	1.49	22.1	0.635
9.40	7.49	30.0	1.35	23.1	0.480
9.60	7.82	33.0	1.22	24.1	0.540
9.80	8.31	36.0	1.10	25.1	0.495
10.0	8.86	40.0	0.993	26.1	0.487
10.5	10.5	44.0	0.881		
11.0	12.1	49.0	0.779		
11.5	13.8	54.0	0.615		
12.0	14.2	59.0	0.333		
12.5	14.6	64.0	0.302		
13.0	13.5	69.0	0.278		
14.0	12.8	74.0	0.252		
15.0	12.7				

Dose Rate - YAG 40 - NAVAJO

Sta. 67

<u>H + hr</u>	<u>mr/hr</u>
4.33	0.091
5.73	0.580
6.50	1.44
6.95	3.27
7.18	7.08
7.32	10.6
7.43	11.6
7.52	12.0
7.62	9.00
7.82	13.8
8.05	5.10
8.32	3.60
8.57	4.98
8.73	10.1
8.88	21.1
9.02	32.0
9.12	37.6
9.25	43.1
9.35	54.2
9.40	40.5
9.50	18.4
9.63	15.0
9.80	13.9
9.95	14.4
10.1	15.8
10.3	14.8
10.5	14.0
11.0	14.6
11.4	19.0
11.7	22.3

Sta. 67

<u>H + hr</u>	<u>mr/hr</u>
12.0	14.8
12.4	13.8
13.0	12.6
14.0	12.0
15.0	11.3
15.3	12.4
15.6	14.7
16.0	18.7
16.3	21.1
16.5	22.1
17.0	21.1
18.0	19.9
19.0	20.5
20.0	19.9
20.2	15.7
20.3	11.6
20.6	11.4
21.0	10.0
22.0	8.51
23.0	8.04
25.0	7.44
27.9	6.11
29.8	5.51
30.0	5.28
33.9	5.04
39.0	4.56
48.1	3.72
56.9	2.52
65.0	2.19
75.1	1.88

Dose Rate - YAG 40 - NAVAJO

Sta. 68

H + hr	mr/hr
5.82	0.424
6.78	1.53
7.20	5.00
7.37	10.0
7.57	12.7
7.73	14.4
7.90	15.1
8.03	5.66
8.27	3.57
8.53	4.22
8.73	12.2
8.87	20.0
9.03	24.8
9.12	29.7
9.25	39.3
9.35	45.5
9.42	22.4
9.48	15.1
9.65	13.3
9.83	13.2
10.6	10.2
10.8	13.2
11.0	12.7
11.4	24.8
11.7	35.8
12.0	14.5
13.0	12.5
14.0	11.9
15.0	10.5

Sta. 68

H + hr	mr/hr
15.4	12.1
15.6	13.7
16.0	16.0
16.3	17.3
16.5	17.6
16.8	18.0
17.4	17.6
18.0	17.3
18.9	16.4
19.0	17.9
20.0	17.9
20.1	15.0
20.7	9.14
21.0	8.30
22.0	7.58
23.0	7.09
24.0	6.74
25.0	6.50
29.9	4.82
34.0	4.28
39.9	3.74
44.1	3.40
48.0	3.13
50.1	3.02
54.8	2.27
59.9	1.50
64.9	1.82
70.4	0.980
73.4	1.61

Dose Rate - YAG 40 - NAVAJO

Sta. 70

<u>H + hr</u>	<u>mr/hr</u>
6.52	0.104
7.03	0.646
7.20	1.29
7.32	1.91
7.45	2.28
7.57	2.49
7.65	2.81
7.80	3.05
7.97	2.97
8.02	2.89
8.18	2.97
8.50	2.31
8.87	4.36
9.08	6.92
9.23	8.18
9.33	8.53
9.55	5.09
9.80	3.99
10.1	3.71
10.4	3.40
10.7	3.36
11.1	3.24
11.4	4.11
11.6	5.09
11.9	3.71
12.5	3.05
13.0	2.57
13.6	2.55
14.1	2.33
15.0	1.91

Sta. 70

<u>H + hr</u>	<u>mr/hr</u>
15.5	2.36
15.8	2.61
16.0	2.97
16.3	3.45
16.6	3.45
16.8	3.45
17.0	3.29
17.4	3.13
18.0	3.13
19.1	3.13
20.0	2.97
20.5	1.75
21.0	1.35
22.0	1.32
23.0	1.22
24.0	1.19
25.0	1.11
26.0	1.08
28.0	0.870
30.0	0.738
33.0	0.662
35.1	0.646
39.9	0.574
45.0	0.550
52.9	0.326
60.2	0.281
68.0	0.273
75.1	0.196

Dose Rate - YAG 40 - NAVAJO

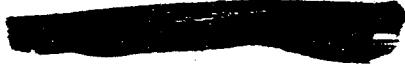
Sta. 71

H + hr	mr/hr
6.83	0.027
7.62	0.097
8.27	0.098
8.78	0.202
9.12	0.519
9.43	0.747
9.72	1.06
10.0	1.33
10.3	1.49
10.6	1.79
10.9	2.06
11.2	2.26
11.6	2.39
12.0	2.47
12.3	2.54
12.7	2.76
13.0	2.76
13.4	2.84
13.8	2.84
14.2	3.13
14.7	3.13
15.0	2.84
15.3	2.98
16.0	2.98
16.2	3.13
16.5	3.21
17.0	3.13
17.5	3.10
18.0	2.98
18.6	2.84

Sta. 71

H + hr	mr/hr
19.1	2.84
19.4	2.39
20.0	2.30
20.6	2.62
21.0	2.73
21.3	2.98
22.1	2.76
23.1	2.54
24.1	2.17
25.0	2.10
26.1	2.02
27.1	1.79
28.1	1.71
29.1	1.64
30.1	1.56
32.0	1.41
34.1	1.30
35.9	1.21
38.1	1.10
40.1	1.03
42.1	0.955
44.0	0.880
46.1	0.835
48.0	0.791
50.0	0.733
55.0	0.644
60.1	0.570
65.1	0.518
70.1	0.474
75.1	0.407

936  
HRR:jmb



TABULATED DOSE RATE HISTORY

YAG 39

SHOT      TEWA

H. R. Rinnert  
Technical Developments Branch

2/18/57



## Dose Rate = Station 2 = YAG 39 TEMA

H+hr	Mr/hr	H+hr	Mr/hr
2.18	0.19	36.0	7.06
2.38	0.99	37.1	6.83
2.57	2.30	38.1	6.71
2.73	4.71	39.0	6.26
3.00	7.68	40.0	5.81
3.07	8.18	41.0	6.79
3.23	11.4	42.0	6.97
3.32	12.5	42.9	4.07
3.40	18.8	45.0	3.46
4.00	41.8	47.2	2.92
4.23	59.4	49.0	2.67
4.40	121	51.0	2.40
5.00	117	53.0	2.17
5.40	118	55.0	2.01
6.00	118	57.0	2.02
6.40	109	59.0	1.97
7.00	104	61.0	1.88
7.40	97.9	62.8	1.83
8.00	93.2	65.0	1.77
8.40	84.8	66.0	1.74
9.00	78.1	67.0	1.67
9.40	74.3	69.0	1.59
10.0	72.5	71.0	1.52
10.4	67.8	73.0	1.45
11.0	64.0	75.0	1.41
12.0	57.4	77.0	1.35
13.0	56.5	79.0	1.30
14.0	52.3	80.2	1.25
15.0	45.0		
16.0	44.1		
17.0	41.3		
18.0	39.4		
20.0	36.2		
21.0	25.2		
22.0	10.1		
23.0	7.70		
24.0	6.52		
25.0	5.89		
26.0	5.35		
27.0	4.91		
28.0	4.36		
29.1	3.84		
30.1	4.27		
31.0	5.81		
32.1	7.16		
33.1	7.33		
34.0	6.79		
35.0	6.79		

## Dose Rate = Station 3 = YAG 39 TEMA

H+hr	Mr/hr	H+hr	Mr/hr
2.23	7.73	37.1	23.4
2.33	22.0	38.1	20.2
2.57	50.6	39.0	17.5
2.73	87.3	40.0	16.7
3.00	142	41.0	16.9
3.23	178	42.0	16.8
3.32	257	42.9	14.9
3.57	434	45.0	14.0
4.00	1020	47.0	13.5
4.40	1440	49.0	13.1
4.57	1150	52.0	12.4
5.00	826	53.0	11.9
5.57	460	55.0	11.4
6.00	369	57.0	10.9
6.57	322	59.0	10.4
7.00	301	61.0	10.1
7.57	311	63.0	9.70
8.00	275	65.0	9.60
8.57	262	66.0	9.40
9.00	239	67.0	9.21
9.57	230	69.0	8.87
10.0	221	71.0	8.64
10.6	195	73.0	8.30
11.0	192	75.0	8.18
12.0	178	77.0	7.72
13.0	158	79.0	6.80
14.0	99.0	80.2	6.68
15.0	87.3		
16.0	81.3		
17.0	69.6		
18.0	69.6		
20.0	57.7		
21.0	57.7		
22.0	55.3		
23.0	45.8		
24.0	38.8		
25.0	36.6		
26.0	34.2		
27.0	29.6		
28.0	28.4		
29.1	27.2		
30.1	27.2		
31.0	26.0		
32.1	26.0		
33.1	24.8		
34.0	24.8		
35.0	22.2		
36.0	21.4		

## Dose Rate = Station 9 - YAG 39 - TEWA

<u>H+hr</u>	<u>r/hr</u>	<u>H+hr</u>	<u>r/hr</u>	<u>H+hr</u>	<u>r/hr</u>	<u>H+hr</u>	<u>r/hr</u>
2.00	0.0017	4.73	9.15	1.30	0.0002	33.1	1.84
2.20	0.0175	5.07	8.20	2.10	0.0082	34.0	1.75
2.23	0.0308	5.15	8.20	2.23	0.0479	35.0	1.49
2.28	0.0467	5.23	7.55	2.32	0.138	36.0	1.44
2.30	0.0591	6.15	5.43	2.35	0.172	37.1	1.36
2.33	0.0714	7.15	4.52	2.38	0.263	38.1	1.37
2.35	0.0837	8.15	4.06	2.57	0.691	39.0	1.09
2.37	0.109	9.15	3.59	2.73	1.55	40.0	1.04
2.70	0.534	10.2	2.96	3.00	2.81	41.0	1.00
2.85	0.728	11.2	2.33	3.32	5.31	42.0	0.955
2.97	0.906	12.2	2.15	3.57	8.02	43.0	0.894
3.05	1.08	13.2	1.88	4.00	13.6	47.2	0.886
3.23	1.29	14.2	1.70	4.07	14.5	49.0	0.825
3.20	1.41	15.2	1.52	4.32	18.4	51.0	0.799
3.27	1.60	16.2	1.30	4.57	19.3	53.0	0.772
3.32	1.70	17.2	1.13	5.00	20.2	55.0	0.711
3.37	1.88	18.1	1.07	5.57	18.7	57.0	0.659
3.42	2.05	19.2	1.07	6.00	16.9	59.0	0.642
3.45	2.05	20.2	0.995	6.57	15.5	61.0	0.616
3.50	2.33	21.1	0.942	7.00	14.5	63.1	0.564
3.53	2.51	22.1	0.888	7.57	13.4	64.9	0.555
3.57	2.51	24.2	0.763	8.57	12.7	66.0	0.529
3.62	2.69	26.2	0.594	9.00	11.7	67.0	0.516
3.63	2.69	28.2	0.505	9.57	10.8	69.0	0.499
3.67	3.05	30.1	0.465	10.0	9.83	71.0	0.485
3.70	3.14	32.2	0.461	10.6	8.96	73.0	0.459
3.73	3.14	34.2	0.412	11.0	8.96	75.0	0.451
3.85	3.59	36.2	0.381	12.0	8.49	77.0	0.424
3.93	4.96	38.3	0.376	13.0	7.12	79.0	0.376
3.95	5.43	40.1	0.310	14.0	6.19	80.2	0.374
4.00	5.89	42.2	0.292	15.0	5.84		
4.03	6.34	44.0	0.290	16.0	5.84		
4.10	6.72	46.0	0.243	17.0	5.13		
4.13	7.20	50.1	0.238	18.0	4.85		
4.15	7.55	53.2	0.215	20.0	3.88		
4.20	7.55	56.2	0.192	21.0	3.61		
4.22	8.20	60.1	0.171	22.0	3.52		
4.25	8.67	63.9	0.158	23.0	3.52		
4.28	8.20	66.2	0.151	24.0	3.07		
4.30	8.67	70.5	0.139	25.0	2.98		
4.31	9.15	72.4	0.136	26.0	2.90		
4.32	8.67	74.4	0.131	27.0	2.36		
4.35	9.15	76.1	0.123	28.0	2.28		
4.42	10.1	78.6	0.113	29.1	2.19		
4.47	11.0	79.4	0.113	30.1	2.10		
4.52	11.0			31.0	2.10		
4.58	11.5			32.1	1.92		
4.62	11.0						

## Dose Rate=Station 13-YAG 39-TEWA

Dose Rate-Station 14-YAG 39-TEWA

<u>H+hr</u>	<u>r/hr</u>	<u>H+hr</u>	<u>r/hr</u>
1.93	0.0007	32.1	2.08
2.15	0.0133	33.1	2.08
2.23	0.0433	34.0	2.02
2.32	0.110	35.0	1.77
2.35	0.132	36.0	1.74
2.38	0.162	37.1	1.67
2.57	0.530	38.0	1.64
2.73	1.35	39.0	1.25
3.00	1.95	40.0	1.18
3.23	3.49	41.0	1.15
3.32	4.14	42.0	1.14
3.57	5.64	42.9	1.11
4.00	11.5	45.0	1.04
4.07	14.6	47.2	1.01
4.32	16.5	49.0	0.973
4.57	23.1	51.0	0.930
5.00	20.5	53.0	0.895
5.57	16.3	55.0	0.847
6.00	15.3	57.0	0.806
6.57	14.0	59.0	0.764
7.00	13.0	61	0.722
7.57	12.4	63	0.702
8.57	10.8	64.9	0.674
9.00	10.0	66.0	0.651
9.57	9.32	67.0	0.633
10.0	9.32	69.0	0.605
10.6	8.56	71.0	0.599
11.0	8.56	73.0	0.557
		75.0	0.432
12.0	7.79	77.0	0.522
13.0	6.36	79.0	0.426
14.0	6.36	80.0	0.425
15.0	5.64		
16.0	4.91		
17.0	4.91		
18.0	4.21		
20.0	3.78		
21.0	3.49		
22.0	3.49		
23.0	3.22		
24.0	3.14		
25.0	3.14		
26.0	3.01		
27.0	2.58		
28.0	2.44		
29.1	2.44		
30.1	2.36		
31.0	2.29		

L

## Dose Rate=YAG 39-TEWA

<u>H+hr</u>	<u>Sta.17 mr/hr</u>	<u>Sta.18 mr/hr</u>	<u>Sta.19 mr/hr</u>	<u>Sta.20 mr/hr</u>	<u>Sta.22 mr/hr</u>	<u>Sta.23 mr/hr</u>
3	58.8	165	1990	960	11.0	4.55
6	150	352	4360	2020	19.9	9.22
10	70.0	173	2610	1320	9.05	5.07
16	23.7	65.2	1210	535	2.73	2.01
20	17.6	45.5	860	359	1.90	1.37
24	13.0	36.2	721	304	1.45	1.13
30	8.59	24.2	500	211	0.908	74.8
42	4.80	13.3	274	119	0.479	39.6
50	3.93	11.0	230	96.0	0.407	33.3
60	3.07	8.75	182	84.8	0.324	25.1
70	2.50	7.25	159	71.1	0.267	21.2
80	1.79	4.73	96.2	47.7	0.190	13.3
90	1.69	4.43	83.1	42.8	0.184	13.3
100	1.45	3.99	84.0	36.6	0.169	11.7
110	1.34	3.41	71.1	31.7	0.153	10.2
120	0.947	2.38	47.1	21.3	0.110	7.03

## Dose Rate=Station 25-YAG 39 TEWA

<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>
2.00	0.17	13.0	1080
2.12	2.15	16.0	748
2.23	10.2	18.0	642
2.32	26.9	20.0	533
2.48	86.1	24.1	424
2.73	232	27.1	350
3.00	457	29.0	329
3.17	553	30.0	317
3.48	1080	32.0	295
3.73	1520	35.0	253
4.00	2280	39.1	198
4.23	3060	42.2	176
4.57	3680	46.2	159
4.73	3770	49.0	148
5.00	3800	50.0	142
5.82	3160	51.0	141
6.00	3000	54.0	131
6.73	2680	57.9	119
7.00	2540	62.0	110
8.00	2190	66.0	101
9.00	1760	69.1	94.1
10.0	1640	70.0	92.0
		76.0	81.5
		78.3	73.1
		79.7	72.5

Dose Rate = YAG 39 = TEWA

<u>Station 26</u>		<u>Station 28</u>			
<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>
2.57	0.81	2.17	1.39	40.0	45.0
2.73	1.44	2.23	3.41	41.9	42.4
2.82	1.91	2.32	8.05	44.0	39.1
3.00	2.84	2.40	14.2	45.9	36.6
3.17	2.93	2.45	24.9	47.9	36.5
3.48	6.98	2.57	39.1	50.0	33.1
3.73	9.15	2.73	77.4	51.9	33.6
4.00	15.5	2.93	130	53.8	31.3
4.23	21.8	3.03	153	56.0	29.3
4.73	28.7	3.23	232	58.0	26.1
5.15	25.6	3.58	393	60.0	24.5
5.57	23.2	4.00	748	62.0	22.9
6.00	21.8	4.23	968	64.0	22.9
6.23	21.8	4.45	1420	66.0	22.9
6.73	20.1	4.82	1520	68.0	22.9
7.00	18.6	5.00	1420	70.0	21.2
8.00	15.5	5.33	1300	72.0	19.8
9.00	12.3	6.00	968	74.0	18.9
10.0	11.5	6.48	859	76.0	18.1
13.0	8.52	7.15	749	78.0	15.0
16.0	5.91	7.57	690	80.0	15.0
18.0	4.84	8.00	641		
20.0	3.93	8.57	596		
24.1	1.68	9.00	532		
27.1	1.29	9.57	510		
29.0	1.12	10.2	489		
30.0	1.16	10.6	446		
32.0	1.41	11.0	424		
35.0	1.24	11.6	404		
39.1	1.05	12.0	371		
42.0	1.06	12.6	349		
		13.2	328		
		14.0	286		
		15.0	254		
		16.0	232		
		17.0	211		
		18.0	201		
		20.0	159		
		22.0	142		
		24.0	125		
		26.0	112		
		28.0	92.2		
		30.1	87.0		
		32.1	82.7		
		34.0	77.4		
		35.9	67.0		
		33.0	58.1		

## Dose Rate - YAG 39 - TEMA

Station 39

H+hr	mr/hr								
2.23	13.4	42.0	70.7	12.6	3.58	4.23	11.3	64.0	0.55
2.32	23.6	44.0	65.6	13.0	3.33	4.45	16.4	66.2	0.52
2.40	46.0	45.9	61.4	14.0	2.98	4.98	23.3	68.1	0.47
2.45	70.7	48.0	60.4	15.0	2.82	5.33	21.5	70.0	0.43
2.57	123	50.0	59.3	16.0	2.98	6.00	19.7	72.0	0.46
2.73	324	52.0	57.3	17.0	2.78	6.48	18.0	74.1	0.44
2.90	44.0	54.0	55.2	18.0	2.90	7.15	16.4	76.0	0.43
3.03	64.1	56.0	51.1	20.0	2.98	7.57	14.6	78.0	0.42
3.23	970	58.0	50.1	22.0	2.67	8.00	14.5	80.2	0.40
3.58	1260	60.0	46.0	24.0	2.55	8.57	11.3		
4.00	2600	62.0	45.0	26.0	2.90	9.00	11.3		
4.23	3870	64.0	42.9	28.0	3.13	9.57	11.3		
4.45	5380	66.0	41.9	30.1	2.98	10.1	11.1		
4.82	5510	68.0	39.8	32.1	2.90	10.6	10.5		
5.33	5010	70.0	38.8	34.0	3.05	11.0	9.67		
6.00	3710	72.0	36.8	35.9	3.12	11.6	8.03		
6.48	3030	74.0	34.7	38.0	2.60	12.0	8.03		
7.15	2560	76.0	34.7	40.0	2.46	12.6	8.03		
7.57	2270	78.0	28.6	42.0	2.36	13.2	8.03		
8.00	2040	80.0	28.6	44.0	2.26	14.0	7.86		
8.57	1800			45.9	2.52	15.0	6.55		
9.00	1650			48.0	2.22	16.0	5.89		
9.57	1430			50.0	2.08	17.0	5.56		
10.1	1210	2.57	0.26	52.0	1.97	18.0	5.08		
10.6	1010	2.90	0.50	54.0	1.90	20.0	4.75		
11.0	728	3.03	1.07	56.0	2.06	22.0	1.96		
11.6	602	3.23	1.32	58.0	2.00	24.0	1.21		
12.0	540	3.58	2.36	60.0	1.97	26.0	1.03		
12.6	483	4.00	5.29	62.0	1.90	28.0	0.85		
13.2	476	4.23	7.64	64.0	1.75	30.1	0.97		
14.0	389	4.45	9.20	66.0	1.77	31.7	1.62		
15.0	368	4.95	10.6	68.1	1.75	32.1	1.38		
16.0	298	5.33	9.86	70.0	1.65	34.0	1.57		
17.0	263	6.00	8.03	72.0	1.59	35.9	1.64		
18.0	218	6.48	8.67	74.0	1.58	38.0	1.33		
19.7	193	7.15	11.4	76.0	1.55	40.0	1.25		
22.0	188	7.57	13.9	78.0	1.61	41.9	1.69		
24.0	166	8.00	14.5	80.1	1.11	44.0	0.91		
26.0	155	8.57	14.5			45.9	0.83		
28.0	144	9.00	15.1			48.0	0.71		
30.1	134	9.57	10.8	2.57	0.35	50.0	0.65		
32.1	102	10.1	5.59	2.90	1.43	52.0	0.66		
34.0	102	10.6	4.56	3.03	1.89	54.0	0.61		
35.9	102	11.0	4.30	3.23	2.36	56.0	0.59		
38.0	91.6	11.6	3.97	3.58	4.10	58.0	0.60		
40.0	70.7	12.0	3.72	4.00	9.67	60.2	0.58		
						62.0	0.57		

## Dose Rate = YAG 39 TEWA

<u>Fahr</u>	<u>nr/hr</u>	<u>Hchr</u>	<u>nr/hr</u>	<u>Hchr</u>	<u>nr/hr</u>	<u>Hchr</u>	<u>nr/hr</u>
<u>Station 67</u>				<u>Station 68</u>			
	38.0	135				15.0	393
2.13	10.3	40.0	97.4	2.03	3.16	15.4	301
2.23	23.9	42.0	102	2.20	15.8	16.0	281
2.32	65.6	44.0	95.1	2.23	24.1	16.5	292
2.40	111	45.9	91.6	2.32	47.6	17.0	271
2.45	171	47.9	89.3	2.42	82.8	17.6	241
2.57	266	50.0	84.6	2.52	134	18.0	230
2.73	572	52.0	82.4	2.65	229	19.0	210
2.90	1370	54.0	78.4	2.77	332	20.0	198
3.03	1710	56.0	74.9	2.90	819	21.0	205
3.23	1790	58.0	72.1	3.00	1340	22.0	200
3.58	2610	60.2	68.6	3.23	1350	23.0	195
4.00	4510	62.0	66.3	3.40	1490	24.0	178
4.23	6820	64.0	65.2	3.57	1760	25.0	170
4.45	9180	66.0	63.5	3.73	1920	26.0	179
4.65	7630	68.1	58.9	3.90	2840	27.0	160
5.00	6050	70.0	58.2	4.00	3380	28.0	159
5.33	5660	72.1	56.8	4.27	5030	29.0	156
6.00	3370	74.2	53.7	4.45	5900	30.0	154
6.48	2700	76.0	50.9	4.67	5420	30.3	150
7.15	2240	78.0	42.9	4.97	5030	31.0	150
7.57	1940	80.2	43.0	5.20	4640	32.0	148
8.00	1710			5.43	4010	33.0	145
8.57	1340			5.67	3380	34.0	140
9.00	1190			6.02	2920	35.0	125
9.57	1070			6.23	2610	37.0	127
10.0	1040			6.43	2460	38.0	125
10.6	901			6.73	2060	39.0	96.7
11.0	887			7.07	1920	40.1	90.7
11.6	797			7.55	1600	41.1	92.7
12.0	724			8.00	1410	42.0	92.7
12.6	694			8.23	1340	43.0	88.7
13.2	664			8.55	1110	44.0	87.7
14.0	524			9.00	948	45.0	85.7
15.0	502			9.58	866	46.0	83.7
16.0	388			10.0	777	48.0	81.7
17.0	365			10.5	713	50.0	78.7
18.0	318			11.0	698	52.0	75.7
20.0	260			11.3	675	54.1	72.7
22.0	253			11.7	592	56.0	68.7
24.0	230			12.1	553	58.1	65.7
26.0	226			12.5	523	60.0	63.7
28.0	191			12.9	508	62.1	61.2
30.1	183			13.4	459	64.0	59.7
32.1	174			13.6	434	66.0	58.2
34.0	168			14.0	403	69.0	54.2
36.0	164			14.5	403	71.0	52.7
						72.9	52.6
						74.9	48.7
						77.0	47.2
						80.0	39.7
						36.0	124.)

Dose Rate - Station 70 - YAG 39 - TEWA

<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>
1.82	0.14	15.4	25.7	64.2	4.77
2.15	2.05	16.0	25.7	66.0	4.30
2.23	7.50	16.5	24.6	69.0	4.08
2.32	18.8	17.0	23.3	72.9	3.95
2.42	30.0	17.5	21.7	74.9	3.75
2.52	47.2	18.0	20.6	77.0	3.60
2.57	71.3	19.0	19.3	80.1	3.17
2.65	103	20.0	17.8		
2.77	158	21.0	15.7		
3.00	183	23.0	14.3		
3.20	289	24.0	13.0		
3.43	473	25.0	12.7		
3.57	632	26.0	12.3		
3.73	746	27.0	10.9		
3.90	1200	28.0	10.8		
4.00	1670	29.0	10.7		
4.27	2650	30.0	10.8		
4.45	3320	30.3	10.4		
4.67	2980	30.7	10.9		
4.97	1610	31.0	11.4		
5.20	1310	31.3	11.8		
5.43	812	31.7	11.7		
5.67	541	32.0	11.4		
6.02	427	32.4	11.5		
6.23	369	33.1	11.4		
6.48	306	34.0	10.9		
6.78	236	35.0	10.1		
7.15	232	36.0	10.0		
7.55	234	37.0	9.45		
8.00	145	38.0	9.34		
8.23	120	39.0	7.53		
8.55	103	40.1	7.47		
9.00	88.3	41.1	8.05		
9.58	77.3	42.0	8.17		
10.1	71.3	43.0	6.18		
10.5	58.2	44.0	6.35		
11.0	53.3	45.0	6.18		
11.3	49.6	46.0	5.90		
11.7	44.8	47.2	5.60		
12.1	43.7	48.1	5.54		
12.5	41.2	50.0	5.54		
12.9	38.9	52.0	5.43		
13.3	36.5	54.2	5.25		
13.6	32.9	56.0	5.07		
14.0	31.7	58.2	5.03		
14.5	30.5	60.1	4.84		
15.0	30.5	62.0	4.77		

Dose Rate -- Station 71 - YAG 39 -- TEWA

<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>
2.32	0.30	17.2	25.3	58.2	2.37
2.52	0.98	17.6	25.0	60.0	2.31
2.65	1.54	18.0	25.0	62.0	2.23
2.77	2.52	19.0	23.4	64.0	2.17
3.00	5.29	20.0	21.7	66.0	2.08
3.23	6.68	21.0	18.5	69.0	2.00
3.40	9.01	22.0	9.01	72.9	1.84
3.57	12.2	23.0	6.37	77.0	1.67
3.73	14.4	24.0	5.60	80.2	1.58
4.00	28.3	25.0	4.83		
4.27	45.9	26.0	4.36		
4.45	64.8	27.0	4.06		
4.67	80.3	28.0	3.61		
4.97	91.0	29.0	3.29		
5.08	86.1	30.0	4.06		
5.43	79.4	30.3	3.91		
5.67	76.0	30.7	4.83		
6.02	80.3	31.0	5.75		
6.28	76.4	31.3	7.46		
		31.7	7.92		
6.53	72.6				
6.78	71.7	32.0	7.46		
7.07	67.7	32.4	7.30		
7.55	62.1	33.1	7.61		
8.00	59.0	34.0	6.84		
8.23	57.1	35.0	7.30		
8.55	55.1	36.0	7.30		
9.07	49.5	37.0	7.14		
9.67	46.9	38.0	7.30		
10.1	46.9	39.0	6.68		
10.5	44.5	40.1	7.14		
11.0	41.5	40.8	9.01		
11.5	38.0	41.1	8.23		
11.7	35.7	42.0	8.23		
12.1	35.8	43.0	4.75		
12.5	37.2	44.0	4.36		
13.1	35.9	45.0	4.21		
13.3	34.4	46.0	3.76		
13.6	34.3	47.2	3.60		
14.2	33.7	48.0	3.46		
14.5	32.6	49.0	3.29		
15.2	28.9	50.0	2.98		
15.4	28.5	52.0	2.76		
16.2	27.2	54.2	2.46		
16.5	26.6	56.0	2.40		

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TABULATED DOSE RATES -- YAG 40

Shot TEWA

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TAC=40 -- TEWA

## Dose Rate-Station 2

H·hr	mr/hr	H·hr	mr/hr
4.83	0.85	33.2	5.98
5.00	4.91	34.2	5.84
5.13	15.1	35.2	5.53
5.40	24.6	36.2	5.36
5.62	55.7	37.2	5.53
5.92	84.2	38.2	5.22
6.10	106	39.2	5.06
6.40	109	40.2	4.76
6.65	104	41.2	4.44
6.90	100	42.2	4.36
7.15	107	43.2	4.27
7.40	116	44.2	4.06
7.73	124	45.2	3.97
8.23	113	46.2	3.85
8.73	95.8	47.2	3.80
9.25	109	48.2	3.68
9.75	84.3	49.2	3.66
10.2	102	50.2	3.44
10.8	77.3	51.2	3.44
11.2	76.2	52.2	3.36
11.7	95.8	53.2	3.34
12.2	107	54.2	3.32
12.7	95.8	56.2	3.13
13.2	81.9	58.2	3.06
13.8	67.1	60.2	2.96
14.2	55.7	62.2	2.83
14.7	53.4	64.2	2.75
15.3	49.0	66.2	2.68
15.7	45.6	68.2	2.58
16.2	37.7	70.2	2.51
16.7	44.4	72.2	2.43
17.3	40.0	75.1	2.31
17.8	44.4		
18.3	33.1		
19.2	50.2		
20.2	31.3		
21.2	13.8		
22.2	3.36		
23.2	10.5		
24.2	9.90		
25.2	9.27		
26.2	8.95		
27.2	7.71		
28.2	7.56		
29.2	7.08		
30.2	6.76		
31.2	6.46		
32.2	6.14		

## Dose Rate-Station 9

H·hr	mr/hr	H·hr	mr/hr
4.35	0.0017	31.2	0.554
4.60	0.0057	32.2	0.527
4.73	0.0134	33.4	0.439
4.95	0.127	34.1	0.432
5.20	0.593	35.3	0.415
5.43	1.08	36.1	0.403
5.58	1.33	38.4	0.339
5.88	1.76	40.4	0.307
6.10	1.86	42.2	0.292
6.38	1.90	44.2	0.262
6.62	1.98	46.2	0.207
6.85	2.13	48.2	0.193
7.10	2.23	50.2	0.191
7.23	2.24	52.2	0.179
7.70	2.21	54.2	0.173
8.23	2.03	56.2	0.167
8.75	1.94	58.2	0.159
9.25	2.09	60.2	0.152
9.75	1.89	62.2	0.139
10.3	1.85	64.2	0.133
10.8	1.79	66.2	0.129
11.2	1.80	68.2	0.127
11.7	1.55	70.2	0.126
12.2	1.60	72.2	0.118
12.8	1.57	75.2	0.113
13.2	1.48		
13.8	1.40		
14.2	1.35		
14.7	1.32		
15.2	1.25		
15.8	1.21		
16.2	1.15		
16.7	1.13		
17.2	1.09		
17.8	1.05		
18.2	1.01		
19.2	0.992		
20.2	0.927		
21.2	0.881		
22.2	0.832		
23.2	0.784		
24.2	0.770		
25.2	0.702		
26.2	0.670		
27.3	0.608		
28.2	0.596		
29.3	0.576		
30.2	0.568		

## YAG-40 — TEWA

Dose Rate-Station 13

H+hr	r/hr	H+hr	r/hr
4.48	0.0040	37.0	1.08
4.62	0.0097	38.0	0.730
4.75	0.0252	39.0	0.660
4.90	0.111	40.0	0.588
4.97	0.233	41.0	0.572
5.07	0.793	42.0	0.566
5.15	1.20	43.0	0.512
5.32	2.41	44.0	0.478
5.48	3.52	45.0	0.470
5.73	5.08	46.0	0.260
6.00	6.31	48.0	0.243
6.23	6.76	50.0	0.215
6.73	7.22	52.0	0.203
7.00	7.22	54.0	0.172
7.23	7.43	55.0	0.181
7.73	6.65	57.0	0.172
8.00	6.19	59.0	0.154
8.23	5.97	61.0	0.154
8.57	5.97	63.0	0.152
9.00	6.54	65.0	0.140
9.23	6.65	68.0	0.132
10.0	6.65	72.0	0.123
11.0	6.65	75.0	0.115
11.6	6.65		
12.0	6.54		
13.0	5.64		
14.0	5.42		
15.0	4.29		
16.0	3.97		
17.0	3.84		
18.0	3.52		
19.0	3.29		
20.0	3.18		
21.0	3.08		
22.0	2.96		
23.0	2.86		
24.0	2.74		
25.0	2.64		
26.0	2.52		
26.6	2.08		
27.0	1.47		
28.0	1.42		
29.0	1.42		
30.0	1.36		
31.0	1.35		
32.0	1.30		
33.0	1.25		
34.0	1.22		
35.0	1.19		
36.0	1.14		

Dose Rate-Station 14

H+hr	r/hr	H+hr	r/hr
4.62	0.0055	36.0	1.15
4.75	0.0147	37.0	1.08
4.90	0.0783	38.0	0.826
4.98	0.193	39.0	0.704
5.07	0.478	40.0	0.696
5.15	0.774	42.0	0.670
5.32	1.31	44.0	0.549
5.43	1.92	45.0	0.319
5.73	2.72	46.0	0.264
6.00	3.52	48.0	0.253
6.23	3.87	50.0	0.221
6.73	3.95	52.0	0.221
7.00	4.33	54.0	0.199
7.23	4.49	55.0	0.178
7.73	4.32	57.0	0.168
8.00	3.96	59.0	0.152
8.23	4.05	61.0	0.143
8.57	4.05	63.0	0.136
9.00	4.41	65.0	0.131
9.23	4.94	72.0	0.117
10.0	4.85	75.0	0.100
10.2	4.94		
10.6	5.04		
11.0	4.85		
11.6	4.85		
12.0	4.48		
13.0	4.14		
14.0	3.78		
15.0	3.17		
16.0	2.98		
17.0	2.81		
18.0	2.62		
19.0	2.46		
20.0	2.19		
21.0	2.01		
22.0	1.90		
23.0	1.82		
24.0	1.75		
25.0	1.66		
26.0	1.62		
27.0	1.45		
28.0	1.42		
29.0	1.40		
30.0	1.36		
31.0	1.31		
32.0	1.28		
33.0	1.26		
34.0	1.23		
35.0	1.17		

[REDACTED] Dose Rate = YAG -40 --- TEWA  
CONTINUATION

H+hr	Sta.16 <u>mr/hr</u>	Sta.17 <u>mr/hr</u>	Sta.18 <u>mr/hr</u>	Sta.20 <u>mr/hr</u>	Sta. 21 <u>mr/hr</u>	Sta.22 <u>mr/hr</u>	Sta.24 <u>mr/hr</u>
10	2610	46.8	113	962	534	6.52	1520
15	1660	26.2	66.0	638	374	3.82	939
20	1300	16.8	44.4	400	265	1.96	718
25	1040	12.4	38.5	312	209	1.42	580
30	719	6.80	22.7	238	111	0.763	385
40	318	2.83	9.27	95.5	48.6	0.336	199
50	161	1.18	3.73	36.7	20.3	0.131	79.3
60	110	0.885	2.87	27.5	14.6	0.107	60.0
70	90.0	0.752	2.36	21.6	11.5	0.092	49.8

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YAG-40 — TEWA

Dose Rate—Station 25

H+hr	mr/hr	H+hr	mr/hr	H+hr	mr/hr	H+hr	mr/hr
4.63	1.15	28.2	111	5.15	1.73	29.3	0.990
4.90	7.49	29.2	107	5.43	3.92	30.2	0.956
5.18	134	30.2	104	5.72	5.83	31.3	0.905
5.48	283	31.2	103	5.98	7.74	32.2	0.879
5.73	458	32.2	98.2	6.23	9.14	33.2	0.848
5.98	496	33.2	94.5	6.48	9.32	34.2	0.814
6.23	560	34.2	91.8	6.73	9.84	35.3	0.897
6.53	560	35.2	90.1	6.97	10.4	36.2	0.767
6.73	560	36.2	87.0	7.23	10.9	37.3	0.743
6.98	599	37.2	82.7	7.50	11.6	38.2	0.644
7.23	639	37.9	72.4	7.72	11.8	39.3	0.617
7.48	599	38.3	54.3	7.98	11.1	40.2	0.593
7.73	560	40.2	50.6	8.22	10.7	42.2	0.564
7.98	548	42.2	49.0	8.48	10.6	44.1	0.513
8.22	523	44.2	41.3	8.75	10.0	46.3	0.435
8.48	523	45.2	32.9	8.98	10.0	48.3	0.417
8.73	523	47.2	28.6	9.23	9.84	50.4	0.386
8.98	509	49.2	24.4	9.73	8.61	52.2	0.370
9.23	547	51.2	24.4	10.2	8.97	54.1	0.364
9.73	547	53.2	23.6	10.7	7.92	56.5	0.340
10.2	547	55.2	22.8	11.2	7.56	58.5	0.335
10.7	535	57.2	21.8	11.7	8.09	60.1	0.330
11.2	523	59.2	20.1	12.2	8.09	62.2	0.320
11.7	498	61.2	18.6	12.7	7.56	64.3	0.309
12.2	483	62.2	16.1	13.2	7.03	66.0	0.301
12.7	458	63.2	18.6	13.7	6.69	68.5	0.287
13.2	432	65.2	16.1	14.2	5.83	70.2	0.275
13.7	394	67.2	15.3	14.7	5.49	73.9	0.258
14.2	368	69.2	15.3	15.2	4.86		
14.7	343	71.2	14.6	15.8	4.71		
15.2	298	73.2	13.1	16.2	4.28		
15.7	285	75.2	12.8	16.8	4.53		
16.2	279			17.2	4.32		
16.7	272			17.7	4.37		
17.2	257			18.2	3.92		
18.1	253			19.3	3.33		
19.2	228			20.3	2.50		
20.2	208			21.3	1.87		
21.2	190			22.3	1.65		
22.2	183			23.2	1.53		
23.2	174			24.3	1.43		
24.2	165			25.3	1.35		
25.2	159			26.2	1.27		
26.2	159			27.2	1.11		
27.2	116			28.3	1.05		

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Dose Rate — YAG-40 — TEWA

Station 28

H+hr	mr/hr	H+hr	mr/hr
4.73	1.12	29.3	38.1
4.87	4.17	30.1	37.3
4.98	16.0	31.2	36.8
5.18	65.4	32.4	35.2
5.50	123	33.3	34.1
5.70	168	34.2	33.0
5.98	206	35.2	32.1
6.22	231	36.1	31.1
6.45	228	37.2	29.6
6.75	233	38.2	21.9
7.00	236	40.2	18.6
7.23	269	42.2	17.6
7.48	254	46.3	9.13
7.73	250	48.2	9.11
7.98	242	50.2	7.83
8.20	232	52.2	7.51
8.48	223	54.2	7.04
8.72	210	56.2	6.71
8.97	208	58.2	6.56
9.22	208	60.2	6.07
9.70	208	62.2	5.92
10.2	199	64.2	5.60
10.7	191	66.3	5.60
11.2	184	68.3	5.28
11.8	161	70.3	5.12
12.2	172	72.2	4.97
12.8	159	74.2	4.49
13.3	152	74.2	15.1
13.7	143		
14.3	132		
14.8	126		
15.2	112		
15.7	107		
16.2	102		
17.3	97.3		
18.2	92.5		
19.3	85.0		
20.2	75.2		
21.2	69.5		
22.3	64.4		
23.3	61.3		
24.3	58.6		
25.2	56.2		
26.2	51.8		
27.2	41.7		
28.2	40.0		

Station 39

H+hr	mr/hr	H+hr	mr/hr
4.78	7.64	28.2	38.2
5.00	47.4	29.2	36.0
5.23	175	30.2	33.8
5.48	300	31.2	33.8
5.72	496	32.3	33.1
6.07	452	33.2	31.3
6.23	462	34.2	28.0
6.40	452	35.2	30.8
6.78	452	36.3	29.7
6.93	454	37.3	23.0
7.27	486	38.2	21.1
7.40	482	40.3	19.2
7.77	447	42.3	19.5
7.93	430	44.2	17.2
8.32	399	46.3	11.6
8.52	384	48.2	12.2
8.73	366	50.3	10.3
8.93	367	52.3	10.3
9.15	358	54.3	9.23
9.85	311	56.3	9.47
10.4	292	58.2	7.92
10.6	281	60.3	7.72
11.2	262	62.2	7.61
11.9	236	64.2	7.65
12.2	205	66.3	7.33
12.7	205	68.3	7.05
13.2	199	70.3	6.95
13.7	180	72.2	6.79
14.2	169	74.2	6.40
14.7	157		
15.2	139		
15.7	151		
16.2	109		
16.7	109		
17.2	83.3		
17.7	79.8		
18.2	77.4		
19.3	74.0		
20.2	69.4		
21.2	65.8		
22.2	63.5		
23.2	59.0		
24.2	56.6		
25.2	54.2		
26.2	49.6		
27.2	41.7		

## Dose Rate — YAG-40 — TEWA

Station 58				Station 64			
H+hr	mr/hr	H+hr	mr/hr	H+hr	mr/hr	H+hr	mr/hr
5.32	0.586	29.3	0.769	5.12	2.61	29.2	1.95
5.48	0.899	30.2	0.755	5.48	4.20	30.2	2.02
5.72	1.27	31.3	0.759	5.72	6.92	31.2	1.78
5.97	1.63	32.3	0.721	6.00	9.55	32.2	1.70
6.25	2.01	33.2	0.694	6.23	11.2	33.2	1.60
6.50	2.14	34.3	0.674	6.48	11.4	34.2	1.56
6.73	2.29	35.2	0.645	6.73	13.1	35.2	1.35
7.00	2.43	36.3	0.616	6.98	14.9	36.2	1.42
7.25	2.59	38.2	0.586	7.23	14.9	38.3	1.31
7.50	2.67	40.2	0.566	7.48	17.0	40.3	1.16
7.73	2.80	42.3	0.532	7.73	17.2	42.3	1.09
7.98	2.80	44.2	0.518	7.98	17.7	44.2	1.05
8.23	2.72	46.2	0.462	8.23	17.7	46.2	0.98
8.48	2.63	48.3	0.486	8.48	18.6	48.2	0.97
8.72	2.54	50.1	0.491	8.73	18.6	50.2	0.87
8.98	2.59	52.1	0.522	8.90	17.0	52.2	0.85
9.22	2.64	54.3	0.496	9.23	15.5	54.2	0.82
9.77	2.47	56.3	0.370	9.73	14.5	56.1	0.80
10.2	2.47	58.3	0.567	10.2	14.7	58.3	0.77
10.7	2.26	60.2	0.542	10.7	12.6	60.2	0.75
11.2	2.39	62.2	0.503	11.2	12.7	62.2	0.65
11.7	2.26	64.2	0.464	11.7	13.2	64.2	0.70
12.2	2.25	66.3	0.476	12.2	13.4	66.2	0.68
12.7	2.25	68.2	0.580	12.7	13.7	68.3	0.65
13.3	2.14	70.2	0.699	13.2	13.4	70.2	0.63
13.8	1.97	72.2	0.456	13.7	10.2	72.2	0.54
14.2	1.94	74.3	0.412	14.2	9.40	74.1	0.61
14.8	1.88			14.7	9.26		
15.3	1.80			15.2	8.47		
15.7	1.77			15.7	8.79		
16.3	1.59			16.3	7.40		
16.7	1.55			16.7	7.86		
17.3	1.44			17.2	7.55		
17.7	1.43			17.7	7.86		
18.2	1.31			18.2	7.07		
19.3	1.44			19.2	6.31		
20.3	1.44			20.2	4.78		
21.2	1.23			21.2	3.59		
22.2	1.17			22.2	3.13		
23.2	1.07			23.2	2.91		
24.3	1.03			24.2	2.54		
25.2	0.969			25.2	2.27		
26.3	0.909			26.3	2.34		
27.2	0.895			27.3	2.19		
28.3	0.855			28.2	2.10		

Dose Rate -- YAG-40 -- TEWA

Station 67

H+hr	<u>mr/hr</u>
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4.57	5.65
4.82	29.5
4.90	97.5
5.00	273
5.07	516
5.23	583
5.32	807
5.60	1270
6.00	1800
6.40	2060
6.57	1880
7.00	1970
7.57	2060
8.00	1880
8.57	1630
9.00	1580
9.57	1580
10.0	1410
10.6	1320
11.0	1240
11.6	1170
12.0	1100
12.6	1120
13.0	1040
13.6	951
14.0	849
14.6	764
15.0	799
15.6	1050
16.0	976
16.6	959
17.0	409
17.6	409
18.0	496
19.0	492
21.0	440
23.0	395
25.0	376
27.0	296
29.0	285
31.0	266
33.0	256
35.0	236
37.0	225

Station 68

H+hr	<u>mr/hr</u>
------	--------------

4.56	4.03
4.81	20.0
4.90	72.7
5.00	190
5.07	363
5.23	492
5.32	662
5.60	1020
6.00	1330
6.40	1330
6.57	1300
7.00	1290
7.57	1040
8.00	920
8.57	800
9.00	816
9.57	728
10.0	664
10.6	624
11.0	592
11.6	507
12.0	512
12.6	452
13.0	424
13.6	376
14.0	352
14.6	320
15.0	290
15.6	320
16.0	304
16.6	293
17.0	288
17.6	282
18.0	278
19.0	283
21.0	253
23.0	254
25.0	224
27.0	161
29.0	154
31.0	146
33.0	111
35.0	131
37.0	122

## Dose Rate -- TAG 40 -- TEMA

Station 70

<u>H</u> / <u>hr</u>	<u>mr</u> / <u>hr</u>	<u>H</u> / <u>hr</u>	<u>mr</u> / <u>hr</u>	<u>H</u> / <u>hr</u>	<u>mr</u> / <u>hr</u>
4.57	1.01	15.3	15.4	41.2	3.49
4.73	3.25	15.5	15.4	42.2	3.50
4.83	10.7	15.8	17.5	43.2	2.85
5.03	55.9	16.1	17.4	44.2	2.93
5.23	167	16.2	16.7	45.3	2.37
5.40	204	16.5	16.5	46.2	1.99
5.57	243	16.7	16.1	47.2	2.25
5.73	281	17.0	15.3	48.2	2.37
5.98	307	17.3	15.6	49.3	1.78
6.23	217	17.5	15.8	50.2	1.81
6.48	204	17.7	15.4	51.2	1.84
6.73	197	18.0	14.8	52.3	1.81
6.98	173	18.2	14.4	53.2	1.79
7.23	179	18.7	17.3	54.3	1.58
7.48	167	19.2	15.4	55.2	1.65
7.73	155	19.7	15.2	56.2	1.57
7.98	130	20.2	12.9	57.3	1.57
8.23	112	20.8	11.6	58.3	1.53
8.48	113	21.2	10.8	59.2	1.52
8.73	94.1	21.7	10.5	60.2	1.52
8.98	113	22.2	10.1	62.3	1.58
9.23	112	22.8	10.0	64.3	1.72
9.48	104	23.2	9.70	66.3	1.68
9.73	86.8	23.7	9.50	68.2	1.51
9.98	82.0	24.2	9.26	70.2	1.55
10.2	77.2	24.7	8.98	72.2	1.58
10.5	73.8	25.2	8.93	74.2	1.24
10.7	61.9	25.7	8.69		
11.0	67.7	26.2	7.08		
11.2	63.0	26.7	5.94		
11.5	53.6	27.2	6.10		
11.7	46.5	27.7	5.94		
12.0	41.9	28.2	6.10		
12.3	40.6	29.2	6.25		
12.5	37.1	30.2	6.10		
12.7	36.0	31.2	6.10		
13.0	30.7	32.2	6.10		
13.3	26.6	33.2	5.94		
13.5	25.2	34.2	5.78		
13.7	22.0	35.2	5.60		
14.0	19.8	36.2	5.60		
14.3	18.3	37.2	5.44		
14.5	17.3	37.7	4.96		
14.7	17.1	38.2	3.17		
15.0	15.7	39.2	3.25		
		40.2	3.41		

## Dose Rate - YAG-40 - TEWA

Station 71

<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mr/hr</u>	<u>H+hr</u>	<u>mc/Ar</u>
5.08	1.60	15.8	40.7	60.3	3.09
5.23	5.65	16.3	37.2	62.3	3.18
5.40	11.2	16.6	38.8	64.2	3.25
5.57	20.9	17.1	37.8	66.2	3.04
5.73	28.4	17.6	37.8	68.2	2.81
5.98	35.7	17.9	37.6	70.2	2.86
6.23	46.7	18.1	35.6	72.3	2.74
6.40	52.7	18.7	34.6	74.2	2.64
6.60	56.0	19.4	34.6		
6.77	60.4	19.7	31.0		
6.92	67.6	20.2	23.6		
7.20	75.9	20.7	19.0		
7.45	79.7	21.2	15.1		
7.70	82.8	21.7	13.3		
7.93	84.8	22.2	12.8		
8.28	85.0	22.7	11.9		
8.52	85.9	23.2	11.2		
8.75	83.7	23.7	11.4		
8.98	82.8	24.2	10.9		
9.23	79.8	25.2	10.2		
9.50	72.3	26.2	10.0		
9.77	71.7	27.2	8.78		
9.98	76.0	28.2	8.63		
10.2	73.2	29.2	8.08		
10.4	72.3	30.2	7.76		
10.7	65.7	31.2	7.39		
11.0	63.7	32.2	6.89		
11.2	62.6	33.2	6.89		
11.5	59.1	34.2	6.70		
11.7	62.0	35.2	6.02		
12.0	64.8	36.2	6.02		
12.2	66.8	37.2	6.02		
12.5	70.5	38.2	5.33		
12.8	65.5	40.2	5.33		
12.9	60.2	42.3	5.15		
13.2	58.0	44.2	4.53		
13.4	54.8	46.2	4.18		
13.8	49.4	48.2	4.17		
14.2	46.9	50.2	3.84		
14.7	45.7	52.3	3.59		
15.0	40.9	54.2	3.57		
15.3	42.8	56.2	3.59		
15.6	43.5	58.2	3.50		

[REDACTED]

TABULATED DOSES

YAG 39

SHOT ZUNI

[REDACTED]

## Dose - YAG 39 - Zuni

Sta. 9		Sta. 13		Sta. 14	
H + hr	mr	H + hr	mr	H + hr	mr
4.07	0	4.07	0	4.07	0
10.4	0.147	7.40	0.90	12.0	1.00
11.8	0.294	11.2	1.80	12.5	2.00
12.2	0.441	12.0	2.70	12.9	3.00
12.6	0.588	12.5	3.60	13.3	4.00
12.9	0.735	12.8	4.50	13.5	5.00
13.1	0.882	13.1	5.40	13.8	6.00
13.3	1.03	13.3	6.30	14.1	7.00
13.4	1.18	13.5	7.20	14.3	8.00
14.8	2.40	13.8	8.10	14.7	10.0
15.5	3.60	14.0	9.00	14.9	11.0
16.4	6.00	14.1	9.90	15.4	21.0
17.0	8.40	14.7	11.7	17.3	31.5
17.7	12.0	16.0	22.0	18.6	52.5
19.3	24.0	16.8	33.0	19.6	73.5
20.7	36.0	17.5	44.0	20.9	105
23.1	60.0	17.9	55.0	23.5	168
25.1	79.9	18.7	77.0	25.1	210
25.3	84.0	19.8	110	26.8	252
28.5	120	23.0	220	29.1	315
30.7	144	25.9	330	32.4	420
34.2	180	26.9	440	38.1	525
41.3	240	30.4	495	41.3	588
46.7	276	32.0	550	46.5	672
50.6	300	39.3	770	50.9	735
54.9	324	46.3	936	55.2	788
60.4	351	50.7	1020	60.4	850
62.1	360	54.8	1100	65.2	903
64.7	372	60.6	1200	70.3	956
70.1	396	65.8	1270	77.0	1020
76.4	421	70.8	1350	79.4	1040
80.2	436	76.5	1430		
		79.9	1470		

## Dose - YAG 39 - Zuni

Sta. 25		Sta. 28		Sta. 68	
H + hr	mr	H + hr	mr	H + hr	mr
11.5	0.165	12.4	0.147	12.0	1.10
12.4	0.330	13.8	0.294	12.9	2.20
12.9	0.495	14.7	0.441	15.2	3.30
13.6	0.825	15.9	0.735	17.2	5.50
14.2	1.16	16.6	1.03	17.9	7.70
14.9	1.65	17.5	1.47	18.5	11.0
16.2	3.30	19.4	2.94	22.7	22.0
17.1	4.95	20.9	4.41	28.6	33.0
18.3	8.27	23.9	7.35	34.5	40.7
19.2	11.6	27.0	10.3	35.8	44.0
20.4	16.5	31.5	14.7	43.8	55.0
22.7	24.7	35.1	17.6	47.7	60.5
23.5	28.1	39.1	20.6	51.4	66.0
24.6	33.0	42.4	22.8	59.0	77.0
28.3	49.5	47.9	25.6	63.9	83.6
32.2	66.0	54.1	27.9	67.5	88.0
36.8	82.5	56.5	29.4	72.1	93.5
42.0	99.0	62.2	31.6	76.8	99.0
44.5	105	66.2	33.1	80.8	103
49.4	116	72.8	35.3		
53.4	124	77.5	36.8		
56.8	132	81.1	37.8		
61.5	139				
62.5	140				
67.6	149				
72.0	155				

[REDACTED]

TABULATED DOSES

PAG 40

SHOT ZUMI

[REDACTED]

Dose - YAG 40 - Zumi

Sta. 9

H + hr	r
3.33	0.00014
4.28	0.0920
4.60	0.276
4.90	0.552
5.18	0.920
5.60	1.84
5.92	2.76
6.63	4.60
10.1	9.20
15.6	13.8
24.2	18.4
34.7	22.1
46.0	24.8
61.5	27.6
78.9	29.8

Sta. 26

H + hr	r
4.23	0.170
4.95	0.850
5.33	1.70
5.87	3.40
6.28	5.10
7.03	8.50
8.17	12.8
9.70	17.0
14.3	25.6
23.0	34.0
41.9	42.5
47.5	44.2
54.1	45.9
58.0	46.8
79.8	50.7

## Dose - YAG 40 - Zuni

Sta. 13

H + hr	r
3.52	0.0011
3.58	0.0022
3.62	0.0033
3.68	0.0055
3.73	0.0076
3.75	0.0112
3.92	0.0226
4.02	0.0339
4.13	0.0565
4.23	0.0848
4.42	0.174
4.53	0.261
4.70	0.435
4.83	0.609
4.98	0.870
5.32	1.74
5.53	2.61
5.88	4.35
6.18	6.09
6.37	7.38
7.42	14.8
8.62	22.2
11.8	37.1
16.1	51.9
18.7	59.3
21.8	66.7
25.4	74.2
29.5	81.5
34.2	88.9
39.5	96.3
42.4	100
43.9	102
45.5	104
47.1	105
48.8	107
50.7	109
54.6	112
59.2	116
64.4	119
67.1	121
73.0	124
79.4	127

Sta. 14

H + hr	r
3.50	0.0012
3.57	0.0024
3.62	0.0036
3.68	0.0060
3.75	0.0100
3.87	0.0210
3.95	0.0315
4.03	0.0525
4.15	0.0776
4.32	0.174
4.43	0.261
4.65	0.435
4.78	0.609
4.95	0.870
5.32	1.74
5.55	2.61
5.95	4.35
6.32	6.09
6.80	8.95
8.70	18.0
12.2	27.0
17.3	36.3
20.3	40.9
22.4	43.5
25.8	47.9
27.9	49.6
29.7	51.4
31.6	53.1
33.6	54.8
35.7	56.6
37.9	58.3
40.3	60.0
42.8	61.8
45.5	63.5
48.3	65.2
51.2	67.0
54.5	68.8
58.0	70.5
61.7	72.2
66.5	74.0
71.0	75.7
75.7	77.4
80.3	79.0

**Dose - Sta. 25 - YAG 40 - Zumi**

<u>H + hr</u>	<u>F</u>
3.45	0.00016
3.63	0.00078
3.72	0.00156
3.87	0.00312
3.95	0.00468
4.02	0.00624
4.07	0.00780
4.12	0.00932
4.15	0.0117
4.67	0.0629
4.98	0.126
5.35	0.252
5.60	0.378
5.93	0.630
6.52	0.945
6.93	1.26
7.82	1.89
8.92	2.52
10.2	3.15
12.2	3.78
14.2	4.41
16.5	5.04
19.2	5.67
22.3	6.30
26.1	6.93
30.6	7.56
35.9	8.19
42.3	8.82
50.1	9.44
59.9	10.1
72.6	10.7
80.2	11.0

Dose - YAG 4G - Zumi

Sta. 28

H + hr	r
3.52	0.0002
3.78	0.0008
4.02	0.0016
4.12	0.0031
4.28	0.0103
5.03	0.0515
5.47	0.103
6.17	0.206
6.60	0.309
7.57	0.515
9.15	0.772
11.2	1.03
17.4	1.55
27.6	2.06
44.9	2.58
54.8	2.78
75.2	3.09
80.3	3.15

Sta. 39

H + hr	r
3.62	0.0011
3.88	0.0056
4.08	0.0112
4.67	0.0780
5.68	0.490
6.40	0.780
7.73	1.56
9.82	2.34
18.6	3.90
46.9	5.85
58.5	6.24
79.2	6.79

Dose - YAG 40 - Zuni

Sta. 58

H + hr	MF
3.68	0.13
5.18	0.66
6.20	1.00
7.28	5.00
8.35	10.0
10.7	20.0
13.9	30.0
23.5	50.0
34.9	75.0
63.7	100
80.2	109

Sta. 64

H + hr	MF
4.13	0.15
5.02	0.75
5.43	1.50
6.07	3.00
6.58	4.50
7.53	7.50
9.33	11.3
11.9	15.0
17.4	22.5
27.9	30.0
52.2	37.5
78.6	42.0

## Dose - EAG 40 - Zuni

Sta 67

H + hr	F
3.50	0.0012
3.58	0.0024
3.53	0.0036
3.70	0.0060
3.75	0.0084
3.92	0.0196
4.05	0.0294
4.23	0.0490
4.33	0.0686
4.45	0.0980
4.68	0.170
4.85	0.255
5.10	0.425
5.27	0.595
5.48	0.850
6.07	1.70
6.55	2.55
7.58	4.25
9.03	5.95
12.8	8.50
16.4	10.2
19.6	11.9
21.6	12.8
23.5	13.6
25.6	14.5
27.7	15.3
29.9	16.2
32.3	17.0
34.8	17.9
37.4	18.7
40.3	19.6
43.3	20.4
46.9	21.3
50.7	22.1
54.5	23.0
58.3	23.8
62.2	24.7
67.0	25.5
72.2	26.4
75.0	26.8
77.8	27.2
80.4	27.6

Sta 68

H + hr	F
3.50	0.0022
3.57	0.0024
3.62	0.0036
3.68	0.0060
3.72	0.0084
3.87	0.0194
4.00	0.0291
4.30	0.0800
4.63	0.160
4.85	0.240
5.15	0.400
5.33	0.560
5.60	0.800
6.30	1.60
6.92	2.40
8.53	4.00
10.1	5.60
17.0	8.00
18.9	8.80
21.0	9.60
23.3	10.4
25.8	11.2
28.5	12.0
31.4	12.8
34.6	13.6
36.0	14.4
42.7	15.2
45.8	16.0
50.2	16.8
52.6	17.2
55.0	17.6
57.5	18.0
60.2	18.4
63.0	18.8
66.0	19.2
69.2	19.6
72.5	20.0
76.1	20.4
80.3	20.8

[REDACTED]

Tabulated Doses

XAC 39

Shot FLATHEAD

[REDACTED]

## Dose - YAG 39 - FLATHEAD

Sta. 9		Sta. 13		Sta. 14	
H + hr	nr	H + hr	r	H + hr	r
4.92	0.490	4.31	0.0009	4.77	0.0010
5.00	0.900	5.18	0.0045	5.30	0.0050
5.48	3.32	5.40	0.0107	5.52	0.0097
5.75	3.61	5.68	0.0224	5.90	0.0199
6.12	9.02	5.98	0.0341	6.18	0.0301
6.88	20.7	7.35	0.110	7.18	0.105
7.43	32.5	8.40	0.220	8.48	0.210
8.32	56.1	10.3	0.440	10.3	0.420
9.08	79.8	12.9	0.770	12.8	0.735
9.30	85.6	16.1	1.10	16.3	1.05
10.2	115	23.4	1.65	24.2	1.58
11.8	173	34.1	2.20	39.9	2.10
13.6	234	50.7	2.75	76.6	2.63
14.6	263	76.2	3.08		
17.9	352				
21.6	435				
23.4	470				
28.5	552				
31.1	587				
33.8	609				
36.0	645				
41.7	702				
46.9	748				
53.8	793				
57.7	816				
62.1	838				
65.5	855				
71.8	882				
77.2	904				
80.2	914				

## Dose - YAG 39 - FLATHEAD

Sta. 25

H + hr	mr
4.53	0.029
5.03	0.323
5.22	0.646
5.40	1.12
5.78	2.75
6.10	4.37
6.57	7.64
6.67	8.70
6.88	11.0
7.30	15.8
7.67	20.2
8.50	32.0
9.43	48.7
11.2	81.3
13.3	115
15.8	164
17.3	181
18.5	193
20.7	213
22.6	229
25.2	249
27.4	262
30.1	278
33.1	295
37.5	310
40.2	327
44.5	344
49.7	359
50.4	361
55.6	372
63.0	386
71.9	401
80.0	410

Sta. 28

H + hr	mr
4.30	0.147
5.12	0.294
5.57	0.441
5.67	0.735
5.90	1.03
6.22	1.47
6.95	2.94
7.38	4.41
8.25	7.35
9.02	10.3
9.30	11.7
10.0	14.7
11.8	23.0
13.5	29.4
15.0	34.4
18.6	44.1
24.3	55.3
26.1	58.8
30.6	64.8
35.4	70.6
38.2	73.5
43.7	78.5
46.5	80.6
51.7	84.0
56.6	86.7
59.8	88.2
66.6	91.1
70.4	92.6
74.3	94.0
79.7	95.6

## Dose - YAG 39 - FLATHEAD

Sta. 39

H + hr	mr
4.78	1.10
5.53	2.20
6.00	3.30
6.57	5.50
6.93	7.70
7.48	11.0
8.87	22.0
10.2	33.0
12.9	55.0
16.5	77.0
23.6	110
29.4	132
32.7	143
36.4	154
40.5	165
45.2	176
50.6	187
53.8	193
57.1	198
60.7	204
64.4	209
68.3	215
72.4	220
77.3	226
79.6	228

Sta. 68

H + hr	mr
4.43	1.10
6.08	5.50
6.98	10.3
8.07	20.9
8.98	30.7
9.95	40.5
10.8	50.3
16.7	100
25.1	150
36.2	200
50.4	250
69.1	300

~~TABULATED DOSES~~

VAC 40

SHOT PLATEAU

## Dose - TAG 40 - Flathead

Sta. 9

Sta. 26

H + hr	r	H + hr	rr
7.08	0	7.15	0.170
8.98	0.0028	11.0	0.340
9.57	0.0060	13.3	0.510
11.5	0.0397	14.7	0.850
12.6	0.176	17.2	1.19
14.7	0.350	21.0	1.70
15.7	0.528	24.2	2.04
19.6	0.783	28.0	2.38
21.7	0.952	32.2	2.72
24.0	1.13	36.0	3.06
26.6	1.30	39.9	3.40
29.3	1.47	44.1	3.74
32.3	1.64	49.2	4.08
35.4	1.81	52.1	4.25
39.2	1.97	55.3	4.42
43.5	2.13	58.6	4.59
48.8	2.29	61.8	4.76
52.3	2.37	65.0	4.93
55.7	2.44	68.5	5.10
59.3	2.51	72.3	5.27
63.4	2.59	76.5	5.44
67.7	2.65		
72.4	2.72		
77.1	2.78		

## Doce - INC 40 - Fleckhead

Sta. 13

<u>H + hr</u>	<u>r</u>
2.18	0.0069
9.73	0.0489
10.5	0.0921
11.3	0.204
11.9	0.315
12.9	0.538
14.0	0.819
15.3	1.10
17.5	1.66
19.9	2.22
22.4	2.77
25.4	3.34
26.8	3.90
32.8	4.45
37.2	5.01
42.3	5.56
48.6	6.11
58.9	6.66
71.7	7.20

Sta. 14

<u>H + hr</u>	<u>r</u>
2.93	0.0058
9.87	0.0357
10.6	0.0880
11.4	0.192
11.9	0.296
12.9	0.505
14.0	0.766
15.2	1.03
17.2	1.55
19.2	2.07
21.3	2.59
23.9	3.11
27.0	3.64
30.5	4.15
34.4	4.67
38.6	5.19
43.7	5.71
50.5	6.22
60.8	6.74
73.4	7.23

## Dose - YAG 40 - Flathead

Sta. 25

H + hr	Mr
8.00	0.030
8.85	0.560
9.57	1.91
10.2	4.85
10.6	7.84
10.7	9.30
11.7	21.8
12.4	34.2
13.7	59.0
15.2	83.8
17.1	121
20.5	183
24.5	245
28.5	295
32.0	331
35.9	368
38.9	392
42.1	416
45.6	441
50.3	464
53.2	477
56.2	488
59.5	499
62.9	511
66.6	523
70.4	534
79.4	557

Sta. 64

H + hr	Mr
2.75	0.150
7.05	0.300
10.2	0.450
12.2	0.750
13.8	1.05
16.4	1.50
20.5	2.25
25.3	3.00
28.0	3.30
30.9	3.60
33.3	3.90
35.8	4.20
38.3	4.50
40.9	4.80
43.8	5.10
46.8	5.40
50.0	5.70
53.3	6.00
56.9	6.30
60.9	6.60
64.8	6.90
68.9	7.20
73.1	7.50
77.6	7.80
79.8	7.95

Dose - YAG 40 - Flathead

Sta. 67

H + hr	MP
7.93	0.85
8.75	4.42
9.20	9.75
9.48	15.3
10.0	20.5
11.2	30.7
13.3	47.6
16.5	77.0
19.8	101
28.8	148
38.9	193
52.8	233
71.0	265

Sta. 66

H + hr	MP
7.83	0.95
8.63	4.88
9.03	10.4
9.33	16.1
9.55	21.9
10.8	32.6
13.0	51.0
16.4	80.3
20.0	106
29.9	156
42.5	202
58.7	244
79.7	279

**TABULATED DOSES**

**YAG 39**

**Shot Navajo**

Dose - Sta. 9 - YAG 39 - Navajo

E + hr	E
2.08	0.00003
2.20	0.00016
2.30	0.00057
2.35	0.00114
2.43	0.00232
2.53	0.00469
2.60	0.00706
2.68	0.0107
2.90	0.0226
3.08	0.0345
3.23	0.0465
3.37	0.0585
3.60	0.0824
4.08	0.177
4.32	0.265
4.72	0.443
5.07	0.623
5.60	0.886
7.52	1.78
10.3	2.67
14.9	3.55
19.7	3.91
21.6	4.00
24.0	4.09
27.0	4.17
30.9	4.26
35.3	4.35
40.5	4.44
46.2	4.52
52.7	4.61
60.3	4.70
69.0	4.79

[REDACTED]

Dose - YAG 39 - Navajo

Sta. 13		Sta. 14		Sta. 25	
H + hr	r	H + hr	r	H + hr	r
3.15	0.088	3.10	0.083	2.40	0.00057
4.07	0.436	4.30	0.419	2.52	0.00131
4.55	0.871	4.70	0.839	2.62	0.00279
4.95	1.31	4.98	1.26	2.72	0.00427
5.43	1.74	5.23	1.68	2.90	0.00784
6.22	2.61	5.78	2.52	3.98	0.0500
8.87	4.35	7.10	4.20	4.40	0.102
15.6	6.52	9.23	6.30	4.73	0.155
36.4	7.84	12.3	8.40	4.98	0.207
64.3	8.72	17.2	10.1	5.58	0.312
72.0	8.89	26.5	10.9	6.78	0.522
		43.1	11.8	8.90	0.785
		69.8	12.6	12.2	1.05
		73.4	12.7	17.1	1.26
				26.0	1.36
				42.5	1.47
				69.6	1.58

[REDACTED] FEBRUARY 1968

Dose - YAG 39 - Navajo

Sta. 28		Sta. 39		Sta. 64	
H + hr	mr	H + hr	mr	H + hr	mr
2.35	0.024	2.37	1.00	2.53	0.060
2.60	0.599	2.98	5.00	4.07	0.650
2.75	1.33	3.40	10.0	4.53	1.40
2.90	2.06	3.67	15.0	4.93	2.20
3.02	2.78	3.82	20.0	5.26	3.00
3.22	4.25	4.02	30.0	5.90	4.60
3.57	7.16	4.27	50.0	6.90	7.70
3.83	10.6	4.48	74.0	8.45	11.7
4.88	52.3	8.05	390	9.53	15.6
5.87	105	12.9	625	11.4	18.8
6.92	158	15.3	702	12.9	21.9
8.28	210	19.7	780	13.6	23.5
10.1	262	38.2	1010	16.4	26.6
12.5	314	67.3	1090	18.9	29.7
15.7	367			20.4	31.2
26.7	419			31.1	38.8
52.4	470			47.5	46.2
71.6	489			59.8	48.9
				67.1	50.3
				73.6	51.2

Dose - YAG 39 - Navajo

Sta. 67		Sta. 68	
H + hr	mr	H + hr	mr
2.57	7.60	2.93	10.0
3.68	38.0	4.00	50.0
4.08	76.0	4.27	100
4.37	114	4.68	150
4.63	152	4.98	200
5.10	228	5.65	300
6.15	380	7.18	500
7.73	570	9.77	750
9.72	760	13.6	1000
15.3	1140	34.0	1500
27.3	1520	42.2	1600
38.1	1900	52.2	1700
63.1	2050	65.0	1800
74.1	2160	74.2	1860

[REDACTED]

TABULATED DOSES

YAG 40

SHOT NAVAJO

[REDACTED]

Dose - YAG 40 - Navajo

Sta. 9		Sta. 13		Sta. 14	
H + hr	r	H + hr	r	H + hr	r
4.60	0.00006	5.90	0.00054	6.18	0.00034
6.58	0.00040	7.10	0.0025	7.15	0.0028
8.75	0.00920	8.18	0.0130	7.50	0.0046
9.40	0.0206	8.87	0.0235	8.18	0.0140
10.2	0.0442	9.38	0.0456	8.72	0.0241
10.9	0.0681	9.75	0.0678	9.25	0.0447
11.7	0.104	10.2	0.101	9.57	0.0654
13.9	0.226	11.4	0.213	9.93	0.0966
16.1	0.347	12.3	0.325	11.1	0.201
18.4	0.468	14.2	0.549	11.9	0.305
21.5	0.587	16.3	0.772	13.5	0.514
24.7	0.645	20.0	1.11	15.3	0.722
28.4	0.701	23.7	1.21	18.5	1.03
32.8	0.755	26.3	1.27	22.6	1.24
35.3	0.783	29.5	1.33	25.4	1.29
38.0	0.810	33.2	1.37	28.5	1.35
40.8	0.836	37.3	1.43	32.9	1.39
43.7	0.863	41.8	1.48	35.8	1.42
46.8	0.888	46.9	1.53	37.8	1.44
53.8	0.937	53.9	1.59	41.0	1.47
62.1	0.983	61.4	1.62	47.0	1.51
63.7	1.02	65.8	1.65	54.1	1.57
74.9	1.04	75.2	1.68	64.9	1.61
				75.2	1.64

C.N.E.

Dose - YAG 40 - Navajo

Sta. 25		Sta. 26		Sta. 64	
H + hr	mr	H + hr	mr	H + hr	mr
6.70	0.103				
7.38	0.480	8.98	0.102	9.75	0.178
8.30	1.91	10.1	0.255	10.6	0.432
8.90	3.41	11.3	0.573	11.5	0.831
9.43	6.44	12.3	0.896	13.9	2.19
9.83	9.49	13.8	1.38	16.3	3.55
10.3	14.1	16.2	2.19	18.5	4.93
11.6	29.5	18.8	3.00	21.3	6.27
12.7	45.0	19.4	3.17	25.6	7.52
15.2	75.9	21.9	3.79	26.6	8.96
18.3	106	25.5	4.58	30.2	10.3
20.2	122	30.1	5.35	34.5	11.5
23.1	130	35.9	6.10	39.6	12.7
25.2	133	38.5	6.40	42.0	13.4
27.4	136	41.4	6.69	45.5	13.9
30.0	140	44.5	6.98	48.8	14.5
36.1	147	47.9	7.26	52.5	15.0
39.5	151	51.6	7.56	56.6	15.5
47.3	157	59.8	8.08	61.2	16.0
55.0	162	68.6	8.61	65.7	16.5
66.3	166	73.5	8.87	70.5	16.9
75.4	168			74.7	17.3

Dose - YAG 40 - Navajo

Sta. 67

H + hr	mr
5.18	0.170
6.80	1.60
7.27	3.72
7.57	7.14
8.17	12.8
8.92	18.3
9.27	30.1
9.38	36.1
9.67	41.9
10.5	53.4
11.9	76.6
14.6	111
15.5	122
16.2	134
16.8	146
17.9	169
21.9	227
24.6	255
28.8	282
33.8	309
39.4	336
44.4	357
50.0	378
56.7	398
60.6	407
64.8	417
75.3	439

Sta. 68

H + hr	mr
6.48	0.600
7.32	2.61
7.52	4.92
7.78	8.40
9.02	19.8
9.38	31.7
10.2	55.3
12.3	78.3
15.3	113
17.5	148
18.8	171
20.7	201
24.6	229
29.6	256
35.7	284
41.2	305
44.6	315
47.8	326
51.4	336
55.5	346
60.2	356
65.2	366
70.9	375
75.4	383

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TABULATED DOSES

YAG 39

Shot Tewa

~~COPYRIGHTED MATERIAL~~

Dose - Sta. 9 - YAG 39 - Tewa

<u>H + hr</u>	<u>r</u>	<u>H + hr</u>	<u>r</u>
1.23	0.00004	18.5	51.6
1.82	0.00012	20.2	53.4
2.22	0.00177	24.3	57.0
2.30	0.00402	30.2	60.3
2.35	0.00756	34.6	62.2
2.45	0.0193	41.2	64.6
2.52	0.0312	47.5	66.4
2.62	0.0550	52.2	67.5
2.80	0.146	56.4	68.4
2.92	0.234	61.4	69.3
3.10	0.412	64.7	69.9
3.23	0.590	72.1	70.9
3.40	0.857	79.8	71.9
3.75	1.74		
3.97	2.63		
4.25	4.41		
4.45	6.19		
4.73	8.86		
5.50	15.0		
5.97	17.8		
6.80	23.1		
7.60	26.7		
10.1	35.6		
10.8	37.5		
13.8	44.5		
17.0	49.8		

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S A M P L E

## Dose - Sta. 13 - VAG 39 - TEWA

H + hr	r	H + hr	r
2.07	0.00017	13.4	122
2.15	0.00116	14.8	131
2.22	0.00243	16.4	139
2.32	0.00940	18.3	148
2.38	0.0227	20.4	157
2.45	0.0445	22.9	165
2.50	0.0664	25.7	174
2.57	0.0996	29.3	183
2.63	0.154	33.7	191
2.72	0.241	39.8	200
2.82	0.415	45.3	205
2.90	0.589	49.3	209
3.00	0.850	53.7	212
3.23	1.72	58.7	216
3.40	2.59	63.5	218
3.65	4.33	68.3	221
3.83	6.07	75.0	224
4.05	8.68	80.4	227
4.57	17.4		
4.97	26.1		
5.92	43.5		
7.10	60.9		
9.32	87.0		
10.2	95.7		
11.2	104		
12.2	113		

~~C O N T R I B U T I O N~~  
Dose - Sta. 14 - YAG 39 - Test

H + hr	r	H + hr	r
2.20	0.00097	17.7	131
2.27	0.00381	19.5	138
2.35	0.0115	23.5	152
2.42	0.0219	28.4	166
2.48	0.0427	31.6	173
2.53	0.0636	35.0	179
<b>2.63</b>	<b>0.0949</b>	<b>39.3</b>	<b>186</b>
2.73	0.200	42.4	190
2.83	0.338	45.6	193
2.93	0.475	51.3	199
3.03	0.632	57.7	204
3.27	1.37	63.4	207
3.43	2.06	72.1	214
3.67	3.44	80.4	218
3.90	4.82		
4.03	6.56		
4.48	13.8		
4.82	20.7		
5.65	34.5		
6.65	48.3		
8.42	69.0		
9.12	76.0		
10.7	89.7		
12.5	104		
14.8	117		
16.2	124		

CONFIDENTIAL

Dose - Sta. 25 - YAG 39 - Tewa

H + hr	r	H + hr	r
2.17	0.00010	26.1	28.8
2.23	0.00053	28.4	29.6
2.32	0.00198	30.9	30.4
2.37	0.00345	33.7	31.2
2.43	0.00641	36.9	32.0
2.57	0.0168	40.8	32.8
2.63	0.0273	45.6	33.6
2.73	0.0483	51.0	34.4
2.82	0.0692	57.2	35.2
2.90	0.101	64.5	36.0
3.13	0.206	73.1	36.8
3.28	0.311	80.3	37.6
3.52	0.521		
3.70	0.731		
3.92	1.05		
4.13	1.58		
4.40	2.38		
4.83	3.98		
5.25	5.58		
5.97	7.98		
9.48	16.0		
12.3	20.0		
16.7	24.0		
20.7	26.4		
22.4	27.2		
24.1	28.0		

CONFIDENTIAL

## Dose - YAG 39 - Tewa

Sta. 26		Sta. 28	
H + hr	mr	H+hr*	r
2.47	0.105	2.12	0.00011
2.51	0.251	2.25	0.00029
2.83	0.393	2.32	0.00057
2.90	0.697	2.35	0.00101
3.02	1.04	2.45	0.00246
3.15	1.49	2.52	0.00392
3.45	2.99	2.57	0.00685
3.65	4.49	2.67	0.00979
3.95	7.49	2.80	0.0205
4.15	10.5	2.90	0.0310
4.35	15.0	3.05	0.0519
4.92	30.0	3.17	0.0729
5.50	45.0	3.30	0.104
6.27	63.7	3.62	0.209
7.00	75.0	3.85	0.314
7.95	92.0	4.13	0.524
9.07	105	4.32	0.734
12.1	135	4.57	1.05
14.0	150	5.40	2.10
16.4	165	6.50	3.15
19.6	180	9.87	5.25
24.3	192	16.2	7.35
30.0	200	22.2	8.40
35.2	206	31.1	9.34
42.3	214	47.4	10.2
57.2	224	60.4	10.6
70.1	234	79.8	11.1

~~C.O. - T.E.W.S. - T.E.W.S.~~

Dose - YAG 39 - Tews

Sta. 39		Sta. 58	
H + hr	r	H + hr	nr
2.20	0.00048	2.82	0.095
2.32	0.00240	3.13	0.375
2.38	0.00436	3.33	0.660
2.43	0.00733	3.57	1.10
2.55	0.0173	3.90	2.11
2.63	0.0272	4.10	3.05
2.73	0.0471	4.37	5.08
2.81	0.0671	4.58	7.10
3.00	0.145	4.88	10.1
3.12	0.223	5.35	14.6
3.32	0.379	5.80	18.2
3.48	0.535	6.43	23.2
3.67	0.769	7.12	29.7
4.07	1.55	7.80	37.8
4.28	2.33	8.25	44.8
4.60	3.89	8.57	49.6
4.90	5.45	9.37	61.0
5.38	7.79	10.9	70.8
8.10	15.6	12.0	74.9
12.2	20.6	17.0	89.7
16.3	21.9	20.5	100
19.2	22.6	23.8	108
23.4	24.1	30.1	127
36.6	25.0	37.0	146
50.4	26.1	43.8	163
64.0	26.8	56.3	190
78.1	27.2	65.7	208
		80.3	231

~~C.O. - T.E.W.S. - T.E.W.S.~~

## Dose - YAG 39 - Tewa

Sta. 64		Sta. 67	
H + hr	mr	H + hr	r
2.73	0.117	2.18	0.00082
2.98	0.415	2.25	0.00292
3.15	0.721	2.30	0.00564
3.35	1.18	2.41	0.0161
3.77	2.75	2.48	0.0275
4.00	4.33	2.58	0.0503
4.30	7.50	2.65	0.0733
4.50	10.7	2.72	0.108
4.76	15.5	2.80	0.142
5.18	24.2	2.90	0.216
5.55	31.4	3.02	0.364
6.05	40.5	3.10	0.512
6.98	56.3	3.20	0.734
8.63	79.1	3.57	1.47
10.1	95.0	3.85	2.19
11.8	111	4.17	3.69
16.2	142	4.38	5.17
18.2	153	4.67	7.39
22.4	158	5.20	14.8
28.3	364	8.22	19.2
34.9	173	10.9	22.2
43.2	185	15.6	25.2
52.3	191	18.3	26.1
61.2	197	23.0	27.4
70.2	202	26.2	28.1
80.3	206	30.2	28.9
		34.6	29.5
		40.6	30.3
		47.2	30.8
		55.3	31.7
		63.6	32.3
		71.0	32.7
		79.8	33.1

A L

Dose - Sta. 68 - YAG 39 - Tewa

H + hr	r	H + hr	r
2.23	0.00162	41.9	24.1
2.30	0.00373	47.0	24.5
2.35	0.00647	54.5	25.1
2.48	0.0169	63.2	25.7
2.57	0.0282	72.4	26.3
2.67	0.0499	80.2	26.7
2.72	0.0715		
2.82	0.103		
2.88	0.147		
2.97	0.223		
3.07	0.375		
3.15	0.527		
3.32	0.755		
3.52	1.08		
3.78	1.51		
4.05	2.27		
4.38	3.79		
4.65	5.32		
5.11	7.59		
6.08	10.8		
8.33	15.2		
12.3	18.3		
18.3	20.5		
24.2	21.7		
30.1	22.7		
35.7	23.5		

~~C D E F G H I J K L M~~

TABULATED DOSES

XAG 40

Shot Tewz

~~M A R C H E N T A L~~

\_\_\_\_\_ A L  
Dose - Sta 9 - XAG 40 - Tewa

<u>H + hr</u>	<u>r</u>	<u>H + hr</u>	<u>r</u>
4.78	0.0023	40.2	34.0
4.98	0.0144	43.3	34.9
5.05	0.0267	47.4	35.8
5.12	0.0516	49.9	36.3
5.28	0.150	55.5	37.2
5.40	0.242	61.7	38.1
5.55	0.425	65.1	38.6
5.68	0.609	72.6	39.4
5.85	0.885	75.1	39.7
6.40	1.81		
6.83	2.73		
7.68	4.55		
8.58	6.40		
9.97	9.16		
11.3	11.5		
12.7	13.8		
14.3	16.1		
16.1	18.4		
18.3	21.4		
20.7	23.0		
23.4	25.3		
25.6	27.5		
29.7	29.4		
33.0	31.2		
35.2	32.1		
37.5	33.0		

\_\_\_\_\_ A L

Dose - Sta 13 - YAG 40 - Tewa

<u>H + hr</u>	<u>r</u>	<u>H + hr</u>	<u>r</u>
4.58	0.00113	18.5	70.8
4.78	0.00416	20.2	76.3
4.95	0.0156	22.1	81.7
4.98	0.0269	24.0	87.2
5.05	0.0494	26.2	92.6
5.10	0.0878	29.7	98.1
5.18	0.197	33.9	104
5.25	0.306	39.4	109
5.35	0.524	44.3	112
5.43	0.741	54.1	114
5.53	1.07	65.8	117
5.77	2.16	74.7	118
5.95	3.25		
6.30	5.43		
6.62	7.61		
7.08	10.9		
7.92	16.4		
8.87	21.8		
9.73	27.3		
10.6	32.7		
11.4	38.1		
12.3	43.6		
13.2	49.0		
14.3	54.5		
15.5	60.0		
16.9	65.4		

~~C O M P U T E R L A B~~

Dose - Sta 14 - YAG 40 - Tewa

<u>H + hr</u>	<u>r</u>	<u>H + hr</u>	<u>r</u>
4.53	0.00036	22.0	56.6
4.75	0.00252	24.5	60.9
4.87	0.00429	27.2	65.2
4.97	0.0147	30.3	69.6
5.02	0.0251	33.7	74.0
5.07	0.0461	37.5	78.3
5.18	0.138	43.8	82.6
5.27	0.225	48.6	84.3
5.40	0.398	56.4	86.0
5.52	0.572	64.3	87.3
5.62	0.833	74.8	88.7
5.92	1.70		
6.18	2.57		
6.65	4.31		
7.08	6.05		
7.70	8.66		
8.78	13.1		
9.75	17.4		
10.7	21.8		
11.6	26.1		
12.6	30.5		
13.7	34.8		
14.9	39.2		
16.4	43.5		
18.0	47.9		
19.8	52.2		

~~COPIED~~

Dose - Sta 25 - YAG 40 - Test

<u>H + hr</u>	<u>r</u>	<u>H + hr</u>	<u>r</u>
4.58	0.00013	34.3	7.81
4.78	0.00041	37.2	8.06
4.87	0.00087	44.5	8.43
4.98	0.00242	54.4	8.68
5.03	0.00397	64.7	8.87
5.12	0.00708	75.0	9.02
5.23	0.0228		
5.30	0.0354		
5.43	0.0605		
5.52	0.0857		
5.63	0.123		
5.93	0.249		
6.20	0.375		
6.67	0.627		
7.12	0.879		
7.78	1.26		
9.00	1.89		
10.2	2.52		
11.4	3.13		
12.8	3.78		
14.4	4.41		
16.5	5.04		
19.0	5.67		
22.2	6.30		
26.0	6.93		
31.6	7.56		

## Dose - YAG 40 - Tewa

Sta 26		Sta 28		Sta 39	
H+hr	nr	H+hr	nr	H+hr	nr
5.12	0.16	4.80	0.24	4.72	0.93
5.22	0.33	4.90	0.54	4.87	2.03
5.37	0.67	4.95	1.01	4.93	4.26
5.58	1.51	5.03	2.56	4.98	6.50
5.88	3.21	5.10	5.51	5.03	9.84
6.10	4.91	5.27	15.8	5.12	21.0
6.50	8.30	5.38	26.1	5.20	32.2
6.87	11.7	5.55	46.7	5.35	59.0
7.35	16.8	5.68	67.3	5.60	137
8.15	25.3	5.85	98.2	5.80	214
9.02	33.8	6.33	201	6.15	370
9.97	42.3	6.77	304	6.48	526
11.0	50.8	7.58	510	7.02	760
12.1	59.3	8.47	716	8.83	1540
13.3	67.8	9.95	998	11.4	2320
14.8	76.3	12.8	1550	15.5	3100
16.5	84.8	17.0	2060	19.7	3490
18.6	93.3	19.2	2260	23.4	3720
21.5	102	22.0	2480	30.1	4040
27.6	110	25.5	2680	37.1	4270
37.2	119	30.3	2880	43.8	4430
46.1	124	36.3	3090	48.9	4510
57.2	128	43.9	3240	54.4	4580
68.3	132	54.3	3350	60.7	4660
74.9	134	64.3	3420	67.8	4740
		74.3	3480	75.0	4790

T A L

Dose - YAG 40 - Tewa

<u>Sta 58</u>			
<u>H + hr</u>	<u>mr</u>	<u>Sta 64</u>	<u>mr</u>
5.23	0.11	4.68	0.01
5.55	0.35	5.10	0.14
5.85	0.72	5.20	0.44
6.52	1.97	5.28	0.73
7.08	3.24	5.42	1.20
8.07	5.79	5.72	2.66
9.03	8.34	5.93	4.15
10.6	12.2	6.27	7.13
13.5	18.6	6.52	10.1
17.0	24.8	7.90	29.6
21.5	31.0	8.83	44.5
24.2	34.1	9.83	59.5
27.4	37.1	10.9	74.4
30.3	39.5	13.3	104
33.5	41.3	14.9	119
37.1	44.1	16.8	134
41.1	46.4	18.9	149
45.4	48.7	21.9	164
50.0	50.8	24.5	171
54.6	53.1	31.5	186
59.0	55.3	38.8	196
63.5	57.6	45.3	204
68.1	59.8	55.5	213
71.7	62.1	65.1	221
74.9	63.6	75.0	228

L  
Dose - Sta 67 - YAC 40 - Teva

H + hr	r	H + hr	r
3.65	0.0004	28.7	19.6
4.65	0.0021	36.4	22.3
4.78	0.0044	42.5	22.4
4.85	0.0065	48.6	22.9
4.95	0.0161	54.7	23.2
4.98	0.0259	60.3	23.5
5.05	0.0455	66.4	23.8
5.08	0.0651	75.0	24.0
5.13	0.0944		
5.30	0.186		
5.43	0.290		
5.60	0.486		
5.75	0.682		
5.93	0.976		
6.27	1.58		
6.72	2.38		
7.03	2.94		
7.57	4.00		
8.07	4.90		
8.48	5.61		
9.32	6.86		
10.1	8.07		
11.5	9.80		
16.5	14.7		
21.1	16.5		
24.0	18.2		

R-A-T

## Dose - Sta. 68 - YAG 40 - Texo

<u>H + hr</u>	<u>r</u>	<u>H + hr</u>	<u>r</u>
4.40	0.0035	36.3	11.7
4.77	0.0026	42.3	12.3
4.87	0.0048	48.3	12.6
4.90	0.0070	54.7	12.9
4.98	0.0167	60.3	13.1
5.03	0.0264	66.3	13.3
5.10	0.0457	75.1	13.5
5.13	0.0651		
5.22	0.0942		
5.38	0.191		
5.50	0.288		
5.68	0.482		
5.85	0.676		
6.05	0.957		
6.50	1.59		
6.77	1.94		
7.13	2.41		
7.57	2.91		
8.76	3.98		
9.93	4.85		
11.1	5.60		
13.7	6.79		
18.5	8.27		
24.0	9.70		
30.6	10.9		

D E N T A L



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6801 Telegraph Road  
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TRC

18 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER  
ATTENTION: OMI/Mr. William Bush (Security)

SUBJECT: Distribution Statement Changes

The Defense Special Weapons Agency has reviewed and approved  
for **public release, all of the listed report; distribution**  
**statement "A"** now applies:

<u>AD-473893L</u>	XRD-173-Appendix 16 <i>(Concurrent)</i>
AD-473913	XRD-194-Section 3
AD-B210866	WT-1321-Supp ✓ <i>Completed 1-7-2000</i>
AD-473915	XRD-196-Section 5.

*Ardith Jarrett*  
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